

Overload and Short Circuit Protection Selector

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APPLICATION DATA

OVERLOAD RELAYS

Thermal overload relays sense motor current by converting this current to heat in a resistance element. The heat generated is used to open a normally closed contact in series with a starter coil causing the motor to be disconnected from the line.

In spite of being relatively simple and inexpensive, thermal overload relays are very effective in providing motor running overcurrent protection. This is possible because the most vulnerable part of most motors is the winding insulation and this insulation is very susceptible to damage by excessively high temperature.

Being a thermal model of a motor, the thermal overload relay will produce a shorter trip time at a higher current similar to the way a motor will reach its temperature limit in a shorter time at a higher current. Similarly, in a high ambient temperature, a thermal overload relay will trip at a lower current or vice versa allowing the motor to be used to its maximum capacity in its particular ambient temperature (if the motor and overload are in the same ambient).

Once tripped, the thermal overload relay will not reset until it has cooled, automatically allowing the motor to cool before it can be re-started.

Square D manufactures two basic types of thermal overload relays, the melting alloy and the bimetallic. In some types, the bimetallic is available in both non-compensated and ambient temperature-compensated versions. In both melting alloy and bimetallic, single element and three element overloads are available.

With the exception of Types CO, TO and UO, all thermal overloads incorporate a trip-free reset mechanism which allows the relay to trip on an overload even though the reset lever is blocked or held in the reset position. This mechanism also prevents the control circuit contact from being re-closed until the overload relay and the motor have cooled.

HAND RESET MELTING ALLOY

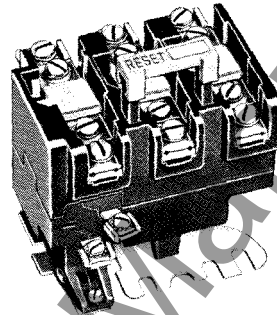
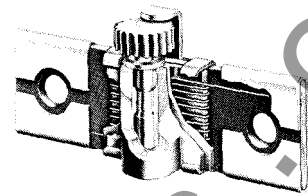
Application — Hand reset melting alloy overload relays use a eutectic alloy solder which responds to the heat produced in a heater element by the motor current. When tripped, the overload relay may be reset manually after allowing a few minutes for the motor and relay to cool and the solder to solidify.

Square D's one-piece thermal unit construction will provide overload protection for the majority of motors. Each thermal unit is factory tested to insure trip accuracy. Repeated tripping does not affect the original calibration. Melting alloy thermal units are available in three designs: standard trip, slow trip and quick trip.

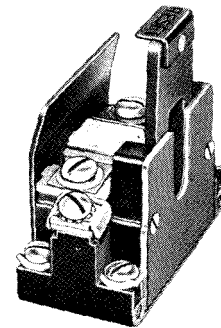
Standard Trip (Class 20) — All standard trip thermal units provide trip characteristics for normal motor acceleration up to approximately 7 seconds on a full voltage start.

Slow Trip (Class 30) — Type SB thermal units provide trip characteristics for motor acceleration up to approximately 12 seconds on a full voltage start. The motor should be suitable for extended starting periods.

Cutaway View of
Standard Trip
Melting Alloy
Thermal Unit



Class 9065
Type SEO-5
Three Pole
Construction



Class 9065
Type CO-1
Single Pole
Construction

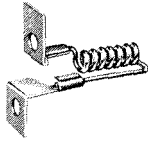
Quick Trip (Class 10) — Type FB thermal units are used to protect hermetically sealed, submersible pump and other motors which can endure locked rotor current for a very short time, or motors which have a low ratio of locked rotor to full load current.

Replaceable Contacts — The contact modules of Type S, F and G (Series C only) overload relays are replaceable. Refer to Control Catalog or Catalog Digest, Class 9998 Section.

Alarm Contacts — Contact modules with one N.O. and one N.C. contact are available for Type S, F, and G (Series C only) overload relays. For Type S, specify Form Y34-2; for Types F & G, specify Form Y34. Y34-2 indicates a four terminal isolated contact module and Y34 indicates a three terminal module with a common terminal between the N.O. and N.C. contacts. Refer to Control Catalog or Catalog Digest, Class 9999 Section.

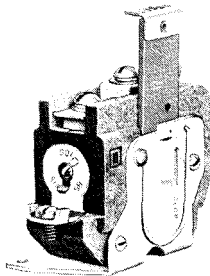
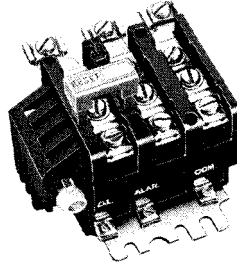
Contact Ratings — For the overload relay control circuit contact ratings refer to page 5.

APPLICATION DATA



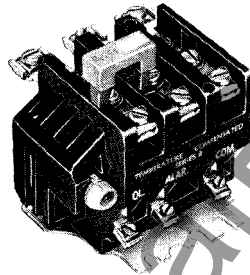
Bimetallic Thermal Unit

Class 9065
Type SEO-6B2
Three Pole Construction
Non-Compensated



Class 9065
Type ARO-1L
Single Pole Construction

Class 9065
Type SEO-6B
Three Pole Construction
Ambient Temperature Compensated



AUTOMATIC RESET BIMETALLIC

Application – Automatic reset bimetallic overload relays are used where the controller is remote, unattended or difficult to reach. Three wire control is normally required for safety when used on automatic reset.

Automatic Reset – Normally bimetallic relays are used on applications which require automatic reset, however, they can be easily converted in the field to hand reset and vice versa. Bimetallic overload relays are shipped from the factory set for hand reset operation. When used on hand reset, allow the motor and thermal units a few minutes to cool before resetting.

Adjustable Trip Current – The trip current is adjustable from 85% to 115% of the trip current rating.

Contacts – A SPDT contact is standard only on Type S. The N.O. contact can be used in an alarm circuit. For control circuit contact ratings refer to the table below.

AMBIENT TEMPERATURE-COMPENSATED BIMETALLIC

Application – Where the motor is in a nearly constant ambient temperature and the controller is in a varying ambient, ambient temperature-compensated overload relays are recommended.

Ambient Temperature-Compensation is available on Type S relays only. An additional bimetal maintains a nearly constant trip current in overload relay ambient temperatures from -20°F to $+165^{\circ}\text{F}$.

Features – In addition to ambient temperature-compensation, these overload relays have all the features of the Automatic Reset Bimetallic.

CONTROL CIRCUIT CONTACT RATINGS

Type	Volts (Minimum of 110 volts is recommended)	AC – 50 or 60 Hz					DC					
		Inductive 35% Power Factor				Continuous Amps.	Resistive 75% Power Factor	Type	Form	Volts	Inductive and Resistive	
		Make		Break							Make and Break Amps.	Continuous Amps.
Amps.	VA	Amps.	VA	Make	Break	Make and Break Continuous Amps.						
AF, AG, AO, AR, AT, AU C, F, G, T, U SAF, SAG, SAU, SDO-18 (NEMA A600 AC Ratings)	120	60	7200	6	720	10	10	AF, AG, AR, AT, AU, SAF, SAG, SAU	Std.	120 240	1.1 .55	10 10
	240	30	7200	3	720	10	10					
	480	15	7200	1.5	720	10	10	C, GO-1, T, U	Std. or Y34	120 240	1.1 .55	10 10
	600	12	7200	1.2	720	10	10					
SD & SE (Sizes 0-4 & 6-8)	120	30	3600	3	360	6	6	F GO-11 SDO-18	Std.	120 240	.55 .28	10 10
	240	15	3600	1.5	360	6	6					
Class 9998 Type SO-1 and SO-2 Contact Modules (NEMA B600 AC Ratings)	480	7.5	3600	.75	360	6	6	AO SD & SE (Sizes 0-4 & 6-8)	Std. or Y34	120 240
	600	6.0	3600	.6	360	6	6					

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BRANCH CIRCUIT PROTECTION — FUSES

General — motor branch circuit short-circuit protection required by the National Electrical Code, Article 430, Section D, can be provided by fuses. The most common fuses used in motor branch circuits are Classes H, J, K, L and R. Class K fuses are further subdivided into Classes K1, K5 and K9. Class R fuses are subdivided into RK1 and RK5.

A fuse is an overcurrent protective device with a circuit opening fusible member which is heated and severed by the passage of current through it. Its purpose is to detect a damaging flow of current and open the circuit as quickly as possible.

Class H Fuses — Class H low-voltage cartridge fuses (sometimes called NEC fuses) are rated at 600 amperes or less, 250 or 600 volts ac and have specified dimensions. These fuses are not of the current-limiting type. UL specifies the interrupting rating of the Class H fuse as 10,000 amperes, although not marked on the fuse. This class has been reserved for fuses now tested and listed on the basis of the present standard for fuses (UL-198). These fuses are not recommended for motor circuits by fuse manufacturers.

Class J Fuses — Class J low-voltage cartridge fuses are rated at 600 amperes or less, 600 volts. These fuses have an interrupting rating of 200,000 amperes. Their dimensions are different from those of Class H, K or R fuses. Class J fuses are current-limiting. Maximum let-through clearing ampere-squared seconds (I^2t) and peak let-through current (I_p) are less than any of the Class K fuse series, but these are normally fast acting fuses which are selected at 300% of full load current rating compared to 125% for Class K time-delay fuses.

Class K Fuses — Class K fuses are rated at 600 amperes or less, 250 or 600 volts ac. Any of the Class K fuses may be UL listed with interrupting capacities of 50,000, 100,000 or 200,000 amperes. UL specifies the maximum let-through I^2t and I_p for each sub-class, with K-1 having the lowest let-through (most current limiting) and K-9 (seldom encountered) the largest let-through (least current limiting). However, Class K fuses are not allowed to be marked current limiting because they are physically interchangeable with other types. Class K fuses may also be listed as time-delay if they have a minimum of 10 second delay at 500% of rated current. The dimensions of Class K fuses are identical to those of Class H fuses.

Class L Fuses — Class L low-voltage fuses are rated at 601-6000 amperes, 600 volts, ac. These fuses have an interrupting rating of 200,000 amperes and have specified dimensions. These fuses are current-limiting. Maximum let-through I_p and clearing I^2t are defined by UL. These fuses bolt in place and do not fit into fuse clips as do smaller fuses.

Class R Fuses — Class RK1 and RK5 fuses have essentially the same current limiting effect as Class K1 and K5 fuses respectively. All Class K1 and K5 fuses with lower let-throughs than the maximum specified for Class R are eligible for re-listing as Class R fuses if they are redesigned

by the fuse manufacturer to incorporate the rejection scheme required for Class R fuses.

Class R fuses have the same physical dimensions as Class H or K, but incorporate a notch or ring in one end so that they will be accepted in fuse clips designed to reject Class H or Class K fuses.

Fuse Selection — Two categories of fuse selection are presented in this booklet — Maximum and Recommended.

Maximum allowable fuse ratings for use with each thermal unit are listed in the thermal unit selection tables on pages 17 through 55, and on the instruction sheet furnished with each starter. They are based on the withstandability of Square D equipment under short circuit conditions. Most of these listings are for time delay fuses (Class K5 or RK5), since they are the most frequently used fuses for motor circuits. It is important to note that these maximum fuse ratings would only be allowed when necessary to permit

TABLE 1
RECOMMENDED CLASS RK5 OR K5 TIME DELAY FUSE
SELECTIONS FOR THREE PHASE MOTOR CIRCUITS*

Min. Starter Size	THREE PHASE — 60 HERTZ							
	200 Volts		230 Volts		460 Volts		575 Volts	
	Motor HP	Fuse Amp.	Motor HP	Fuse Amp.	Motor HP	Fuse Amp.	Motor HP	Fuse Amp.
00	1/2	3.5	1/2	3.2	1/2	1.6	1/2	1.25
	3/4	5	3/4	4.5	1	2.8	1	2.25
	1	6.25	1	5.6	1 1/2	4	1 1/2	3.2
	1 1/2	10	1 1/2	8	2	5.6	2	4.5
0	2	12	2	10	3	8	3	6.25
	3	17.5	3	15	5	12	5	10
1	5	25	5	25	7 1/2	17.5	7 1/2	15
	7 1/2	40	7 1/2	35	10	20	10	17.5
2					15	35	15	25
			10	40	20	40	20	35
	10	50	15	60	25	50	25	40
3	15	70	20	80	30	60	30	50
	20	90	25	100	40	80	40	60
	25	110	30	125	50	100	50	80
4					60	110	60	90
	30	125	40	150	75	150	75	110
	40	175	50	200	100	175	100	150
5	50	225	60	225	125	225	125	175
	60	250	75	300	150	250	150	200
	75	300	100	350	200	350	200	300
6					250	450	250	350
	100	400	125	450	300	500	300	400
	125	500	150	500	350	600	350	450
	150	600	200	600	400	600	400	500

*Based on optimum coordination with overload relays using standard trip thermal units.

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motor starting — for most applications the lower fusing limits imposed by NEC table 430-152 would apply.

In the case of starters NEMA Size 3 or lower, if available short-circuit current is 5,000 amperes symmetrical or less, non-time delay fuses whose rating does not exceed 300 percent of motor full-load current may also be used.

Recommended selections of Class RK5 or K5 time delay fuses are listed in Table 1. These selections are suitable for most applications, and provide optimum coordination with Square D overload relays, as well as lower let-through under fault conditions.

BRANCH CIRCUIT PROTECTION CIRCUIT BREAKERS

General — Circuit breakers combine the branch-circuit short-circuit protection and disconnecting means, required by the National Electrical Code, in one unit. A circuit breaker is designed to open and close a circuit by non-automatic means and to open the circuit automatically on a predetermined overcurrent without damage to itself when properly applied within its rating.

Circuit breakers have a quick-make, quick-break operating mechanism and are trip free. The trip free mechanism will open the circuit breaker contacts under overload or short circuit currents even though the breaker handle is held in the "ON" position. In the case of a single-phase fault on a three-phase system, a circuit breaker will open all three phases preventing any possible damage due to "single phasing."

Magnetic Only — Magnetic only circuit breakers, referred to as instantaneous trip circuit breakers by the NEC, have instantaneous (magnetic) tripping action, but not the inverse time tripping characteristics of thermal-magnetic breakers.

Article 430-52 states, "an instantaneous trip circuit breaker shall be used only if adjustable, if part of a combination controller having motor-running overload and also short-circuit and ground-fault protection in each conductor, and if the combination is especially approved for the purpose."

Square D provides MAG-GARD® (adjustable, instantaneous trip, magnetic only) circuit breakers in combination controllers. This provides branch-circuit short-circuit protection which is recognized by Underwriters' Laboratories and complies with NEC requirements.

MAG-GARD® circuit breakers have a single adjustment which simultaneously sets the magnetic trip levels of each individual pole. The NEC, in Table 430-152, lists the maximum setting of instantaneous trip breakers as 700% of

ac motor full load current. Article 430-52, however, permits this setting to be increased up to a maximum of 1300% if necessary to allow starting of the motor. The smallest MAG-GARD® rating is 3 amperes, with an adjustable trip range of 7-22 amperes. Thus, close protection can be provided for fractional horsepower motors.

Optional thermal-magnetic circuit breakers are available in Sizes 0, 1 and 2 combination controllers.

Circuit Breakers — Since MAG-GARD® circuit breakers are instantaneous trip, as stated before, they may only be used if part of a combination controller. If separate components in the motor branch circuit are preferred, thermal-magnetic circuit breakers must be used.

Thermal-Magnetic — The thermal-magnetic circuit breaker has, as the name implies, both a thermal element designed to function on overload and a magnetic element designed to function on short circuits. The thermal-magnetic circuit breaker is described in the 1968 and 1971 NEC as a time limit breaker and in the 1975, 1978, and 1981 NEC as an inverse time circuit breaker. It is felt that the term "inverse time" describes the function of the thermal-magnetic breaker more accurately, since its trip time is inversely proportional to the amount of current it takes to trip the breaker.

Circuit Breaker Selection — The maximum allowable circuit breaker selections are listed in Tables 2 and 3. For optimum short circuit protection, the recommended selections in Table 4 should be followed whenever possible.

**TABLE 2
MAXIMUM THERMAL-MAGNETIC
CIRCUIT BREAKER SELECTION***

Maximum Ratings For Use With Square D Equipment As Verified In Accordance With UL Standards

Size	Trip Rating (Amperes)
00	15
0	225% of motor full load current ▲
1	225% of motor full load current ▲
1P	225% of motor full load current ▲
2	225% of motor full load current ▲
3	200% of motor full load current
4	175% of motor full load current
5	175% of motor full load current
6	175% of motor full load current

* If the value listed in this table exceeds that allowed by NEC table 430-152, the NEC limit must be observed unless a higher value is necessary to permit motor starting. (See NEC 430-52). For part-winding starters, two circuit breakers must be used, one for each motor winding. Maximum rating for each breaker is one half the value shown in table.

▲ Exception: If motor full-load current is less than 6.67 amperes, the smallest available circuit breaker (15A.) may be used.

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APPLICATION DATA

Mag-Gard® CIRCUIT BREAKER — MOTOR CIRCUIT PROTECTOR

TABLE 3
MAXIMUM INSTANTANEOUS TRIP CIRCUIT BREAKER SELECTION
 Maximum Ratings For Use With square D Equipment As Verified
 In Accordance With U.L.-508.

For All Combination Controllers Except Part-Winding, Autotransformer, and Wye-Delta Starters*

Starter NEMA Size	Thermal Unit Type	Rating (Amp.)	Adjustable Trip Range (Amp.)	MAG-GARD® Catalog Number	Motor Full Load Amps.	
					Min.	Max.
0	B or AR only	3	7-22	FAL 36003-11M	0.54	1.91
	B, FB, or AR	7	18-58	FAL 36007-12M	1.65	5.04
		15	50-150	FAL 36015-13M	4.34	12.0
1	B or AR only	3	7-22	FAL 36003-11M	0.54	1.91
	B, FB or AR	7	18-58	FAL 36007-12M	1.65	5.04
		15	50-150	FAL 36015-13M	4.34	13.0
		30	100-300	FAL 36030-15M	11.3	26.0
		50	150-480	FAL 36050-16M	22.5	26.0
2	B, FB, or AR	15	50-150	FAL 35015-13M	3.85	13.0
		30	100-300	FAL 36030-15M	11.3	26.0
		50	150-480	FAL 36050-16M	22.5	41.7
		100	330-1200	FAL 36100-18M	35.9	45.0
3	CC, FB, or AU	50	150-480	FAL 36050-16M	22.5 ▲	41.7
		100	330-1200	FAL 36100-18M	35.9	86.0
4	CC, FB, or AU	100	330-1200	FAL 36100-18M	21.2	86.9
		225	625-1250	KAL 36225-25M	74.8	108
		225	750-1500	KAL 36225-26M	93.5	130
		225	875-1750	KAL 36225-29M	113	133
5	DD or AF	225	875-1750	KAL 36225-29M	67.3	152
		225	1000-2000	KAL 36225-30M	131	173
		225	1125-2250	KAL 36225-31M	150	195
		400	1250-2500	LAL 36400-32M	169	217
		400	1500-3000	LAL 36400-33M	187	260
		400	1750-3500	LAL 36400-35M	225	266
6	B or AR	400	1500-3000	LAL 36400-33M	116	260
		400	1750-3500	LAL 36400-35M	225	304
		400	2000-4000	LAL 36400-36M	262	347
		600	2500-5000	MAL 36600-40M	300	434
		600	3000-6000	MAL 36600-42M	374	520
		600	3500-7000	MAL 36600-44M	449	520

▲ May be a minimum of 11.6 amp. if conductors to line side of breaker are #10AWG minimum.

* The NEC 1300% maximum setting may be inadequate for instantaneous trip circuit breakers to withstand current surges typical of the magnetization current of autotransformer type reduced voltage starters, or open transition wye-delta starters during transfer from "start" to "run", and constant HP Multi-Speed motors. Select Thermal-Magnetic Circuit Breakers from pages 9 and 10 for those applications.

Part-winding motors, per 1981 NEC 430-3, should have two circuit breakers selected from the above at not more than one half the allowable trip setting for the horsepower rating. The two circuit breakers should operate simultaneously as a disconnecting means per 1981 NEC 430-103.

APPLICATION DATA

TABLE 4
RECOMMENDED CIRCUIT BREAKER SELECTION
 Recommended For Optimum Coordination With Square D Equipment

HORSEPOWER RATINGS						* Full Load Amps	MAG-GARD C/B Catalog No.	MAG-GARD C/B Adjustable Settings as Per Cent of Motor Full Load Amps.							Thermal-Magnetic Non-Adjustable Inverse Time Circuit Breaker	
Squirrel-Cage and Synchronous Motors with Code Letters B to E Operating at Usual Speeds				One Phase 60 Hz. ac				LO	2	3	4	5	6	HI	Ordinary Service	Heavy Service
Three Phase 60-Hz. ac				115 Volts	230 Volts											
200 Volts	230 Volts	460 Volts	575 Volts	115 Volts	230 Volts											
—	—	—	1/2	—	—	0.8	FAL36003-11M	900%	1100%	1500%	1800%	2000%	2400%	2800%	15FA	15FA
—	—	1/2	—	—	—	1.0	FAL36003-11M	700%	900%	1200%	1400%	1600%	1900%	2200%	15FA	15FA
—	—	—	3/4	—	—	1.1	FAL36003-11M	600%	800%	1100%	1300%	1500%	1700%	2000%	15FA	15FA
—	—	3/4	1	—	—	1.4	FAL36003-11M	500%	600%	900%	1000%	1100%	1400%	1600%	15FA	15FA
—	—	1	—	—	—	1.8	FAL36003-11M	400%	500%	700%	800%	900%	1100%	1200%	15FA	15FA
—	1/2	—	—	—	—	2.0	FAL36007-12M	900%	1300%	1600%	1900%	2300%	2600%	2900%	15FA	15FA
—	—	—	1 1/2	—	—	2.1	FAL36007-12M	900%	1200%	1500%	1800%	2100%	2500%	2800%	15FA	15FA
1/2	—	—	—	—	—	2.3	FAL36007-12M	800%	1100%	1300%	1700%	2000%	2300%	2500%	15FA	15FA
—	—	—	—	—	—	2.6	FAL36007-12M	700%	1000%	1200%	1500%	1700%	2000%	2200%	15FA	15FA
—	—	—	2	—	—	2.7	FAL36007-12M	700%	900%	1100%	1400%	1700%	1900%	2100%	15FA	15FA
—	3/4	—	—	—	—	2.8	FAL36007-12M	600%	900%	1100%	1400%	1600%	1900%	2100%	15FA	15FA
—	—	—	—	—	—	3.22	FAL36007-12M	600%	800%	1000%	1200%	1400%	1600%	1800%	15FA	15FA
—	—	2	—	—	—	3.4	FAL36007-12M	500%	700%	900%	1100%	1300%	1500%	1700%	15FA	15FA
—	—	—	—	—	—	3.6	FAL36007-12M	500%	700%	900%	1100%	1300%	1400%	1600%	15FA	15FA
—	—	—	—	—	—	3.9	FAL36007-12M	500%	600%	800%	1000%	1200%	1300%	1500%	15FA	15FA
—	—	—	3	—	—	4.14	FAL36007-12M	400%	600%	700%	900%	1100%	1300%	1400%	15FA	15FA
—	—	—	—	—	—	4.8	FAL36007-12M	400%	500%	600%	800%	900%	1100%	1200%	15FA	15FA
—	—	—	—	—	—	5.2	FAL36015-13M	1000%	1300%	1600%	1900%	2200%	2600%	2900%	15FA	15FA
—	1 1/2	—	—	—	—	5.98	FAL36015-13M	800%	1100%	1400%	1700%	1900%	2200%	2500%	15FA	15FA
—	—	—	—	—	—	6.1	FAL36015-13M	800%	1100%	1400%	1600%	1900%	2200%	2500%	15FA	15FA
—	—	—	—	—	—	6.8	FAL36015-13M	700%	1000%	1200%	1500%	1700%	2000%	2200%	15FA	15FA
—	—	—	—	—	3/4	6.9	—	—	—	—	—	—	—	—	15FA	15FA
—	—	—	—	—	—	7.2	—	—	—	—	—	—	—	—	15FA	15FA
—	—	—	—	1/2	—	7.6	FAL36015-13M	700%	900%	1100%	1300%	1500%	1800%	2000%	15FA	15FA
—	—	5	—	—	—	7.82	FAL36015-13M	600%	800%	1100%	1300%	1500%	1700%	1900%	15FA	15FA
2	—	—	—	—	—	8.0	—	—	—	—	—	—	—	—	15FA	20FA
—	—	—	—	—	1	9.0	FAL36015-13M	600%	700%	900%	1100%	1300%	1500%	1700%	15FA	20FA
—	—	—	7 1/2	—	—	9.6	FAL36015-13M	500%	700%	900%	1000%	1200%	1400%	1600%	20FA	20FA
—	—	—	—	—	—	9.8	—	—	—	—	—	—	—	—	20FA	20FA
—	—	—	—	1/2	—	9.8	—	—	—	—	—	—	—	—	20FA	20FA
—	—	—	—	—	1 1/2	10.0	—	—	—	—	—	—	—	—	20FA	20FA
—	—	—	—	—	—	11.0	FAL36015-13M	500%	600%	800%	900%	1100%	1200%	1400%	20FA	25FA
—	—	—	—	—	—	12.0	—	—	—	—	—	—	—	—	25FA	25FA
—	—	—	—	—	—	13.8	—	—	—	—	—	—	—	—	25FA	30FA
—	—	—	—	3/4	—	14.0	FAL36030-15M	700%	900%	1200%	1400%	1600%	1900%	2100%	25FA	30FA
—	—	—	—	—	—	15.2	FAL36030-15M	700%	900%	1100%	1300%	1500%	1700%	2000%	30FA	35FA
—	—	—	—	—	—	16.0	—	—	—	—	—	—	—	—	30FA	35FA
—	—	—	—	—	—	17.0	FAL36030-15M	600%	800%	1000%	1200%	1400%	1600%	1800%	35FA	35FA
—	—	—	—	—	—	17.5	FAL36030-15M	600%	700%	900%	1100%	1300%	1500%	1700%	35FA	35FA
—	—	—	—	—	—	20.0	—	—	—	—	—	—	—	—	40FA	40FA
—	—	—	—	—	—	21	FAL36030-15M	500%	600%	800%	1000%	1100%	1300%	1400%	40FA	45FA
—	—	—	—	—	—	22	FAL36030-15M	500%	600%	800%	900%	1000%	1200%	1400%	45FA	45FA
—	—	—	—	—	—	24	—	—	—	—	—	—	—	—	50FA	50FA
—	—	—	—	—	—	25.3	FAL36050-16M	600%	800%	1000%	1200%	1500%	1700%	1900%	50FA	50FA
—	—	—	—	—	—	27	FAL36050-16M	600%	700%	1000%	1100%	1400%	1600%	1800%	60FA	60FA
—	—	—	—	—	—	28	FAL36050-16M	500%	700%	900%	1100%	1300%	1500%	1700%	60FA	60FA
—	—	—	—	—	—	32	FAL36050-16M	500%	600%	800%	1000%	1200%	1300%	1500%	60FA	70FA
—	—	—	—	—	—	34	FAL36050-16M	400%	600%	800%	900%	1100%	1200%	1400%	70FA	70FA
—	—	—	—	—	—	40	FAL36100-18M	800%	1100%	1300%	1500%	2000%	2500%	3000%	80FA	80FA
—	—	—	—	—	—	41	FAL36100-18M	800%	1000%	1300%	1500%	2000%	2400%	2900%	80FA	90FA
—	—	—	—	—	—	42	FAL36100-18M	800%	1000%	1200%	1400%	1900%	2400%	2900%	80FA	90FA
—	—	—	—	—	—	48.3	FAL36100-18M	700%	900%	1100%	1200%	1700%	2100%	2500%	90FA	100FA
—	—	—	—	—	—	50	—	—	—	—	—	—	—	—	90FA	100FA
—	—	—	—	—	—	52	FAL36100-18M	600%	800%	1000%	1200%	1500%	1900%	2300%	90FA	110KA
—	—	—	—	—	—	54	FAL36100-18M	600%	800%	900%	1100%	1500%	1900%	2200%	90FA	110KA
—	—	—	—	—	—	56	—	—	—	—	—	—	—	—	90FA	110KA
—	—	—	—	—	—	62	KAL36225-25M	1000%	1200%	1500%	1600%	1800%	1900%	2000%	100FA	125KA
—	—	—	—	—	—	65	FAL36100-18M	500%	600%	800%	900%	1200%	1500%	1800%	100FA	150KA
—	—	—	—	—	—	68	FAL36100-18M	500%	600%	800%	900%	1200%	1500%	1800%	100FA	150KA
—	—	—	—	—	—	77	KAL36225-25M	800%	1000%	1200%	1300%	1400%	1600%	1600%	110KA	175KA
—	—	—	—	—	—	78.2	FAL36100-18M	400%	500%	700%	800%	1000%	1300%	1500%	110KA	175KA
—	—	—	—	—	—	80	FAL36100-18M	400%	500%	600%	800%	1000%	1300%	1500%	110KA	175KA
—	—	—	—	—	—	92	KAL36225-25M	700%	800%	1000%	1100%	1200%	1300%	1400%	125KA	200LA
—	—	—	—	—	—	96	KAL36225-25M	700%	800%	900%	1000%	1100%	1200%	1300%	125KA	200LA
—	—	—	—	—	—	99	KAL36225-25M	600%	800%	900%	1000%	1100%	1200%	1300%	150KA	200LA
—	—	—	—	—	—	100	—	—	—	—	—	—	—	—	150KA	200LA
—	—	—	—	—	—	104	KAL36225-26M	700%	800%	1000%	1100%	1300%	1400%	1400%	150KA	225LA
—	—	—	—	—	—	120	KAL36225-26M	600%	700%	800%	1000%	1100%	1200%	1300%	175KA	250LA
—	—	—	—	—	—	124	KAL36225-29M	700%	800%	1000%	1100%	1200%	1300%	1400%	200KA	250LA
—	—	—	—	—	—	125	KAL36225-29M	700%	800%	1000%	1100%	1200%	1300%	1400%	200KA	250LA

Footnotes — See page 10.

Continued next page

APPLICATION DATA

HORSEPOWER RATINGS						* Full Load Amps	MAG-GARD C/B Catalog No.	MAG-GARD C/B Adjustable Settings as Per Cent of Motor Full Load Amps.							Thermal-Magnetic Non-Adjustable Inverse Time Circuit Breaker	
Squirrel-Cage and Synchronous Motors with Code Letters B to E Operating at Usual Speeds				One Phase 60 Hz. ac				LO	2	3	4	5	6	HI	⓪ Ordinary Service	▲ Heavy Service
200 Volts	230 Volts	460 Volts	575 Volts	115 Volts	230 Volts											
—	50	—	—	—	—	130	KAL36225-29M	700%	800%	900%	1100%	1200%	1300%	1300%	200KA	300LA
—	—	—	150	—	—	144	KAL36225-30M	700%	800%	900%	1000%	1200%	1300%	1400%	200LA	300LA
50	—	—	—	—	—	150	KAL36225-30M	700%	700%	900%	1000%	1100%	1300%	1300%	200LA	300LA
—	60	—	—	—	—	154	KAL36225-31M	700%	800%	900%	1000%	1200%	1300%	1500%	225LA	350LA
—	—	125	—	—	—	156	KAL36225-31M	700%	800%	900%	1000%	1200%	1300%	1400%	225LA	350LA
60	—	—	—	—	—	177	LAL36400-32M	700%	1000%	1100%	1300%	—	—	1400%	250LA	400MA
—	—	150	—	—	—	180	LAL36400-32M	700%	900%	1100%	1300%	—	—	1400%	250LA	400MA
—	75	—	200	—	—	192	LAL36400-32M	700%	900%	1000%	1200%	—	—	1300%	250LA	400MA
75	—	—	—	—	—	221	LAL36400-33M	700%	900%	1000%	1200%	—	—	1400%	300LA	450MA
—	—	200	—	—	—	240	LAL36400-35M	700%	900%	1000%	1200%	—	—	1500%	350LA	500MA
—	—	—	250	—	—	242	LAL36400-35M	700%	900%	1000%	1200%	—	—	1400%	350LA	500MA
100	—	—	—	—	—	248	LAL36400-35M	700%	800%	1000%	1200%	—	—	1400%	350LA	500MA
—	—	—	300	—	—	285	LAL36400-36M	700%	900%	1200%	1300%	—	—	1400%	400LA	600MA
—	—	—	—	—	—	289	LAL36400-36M	700%	900%	1100%	1300%	—	—	1400%	400LA	600MA
—	—	250	—	—	—	302	LAL36400-36M	700%	900%	1100%	1300%	—	—	1300%	400LA	700MA
—	125	—	—	—	—	312	MAL36600-40M	800%	1000%	1300%	1400%	—	—	1600%	450MA	700MA
—	—	—	350	—	—	336	MAL36600-40M	700%	1000%	1200%	1300%	—	—	1500%	500MA	700MA
125	—	—	—	—	—	359	MAL36600-40M	700%	900%	1100%	1300%	—	—	1400%	500MA	800MA
—	150	—	—	—	—	360	MAL36600-40M	700%	900%	1100%	1300%	—	—	1400%	500MA	800MA
—	—	300	—	—	—	361	MAL36600-40M	700%	900%	1100%	1200%	—	—	1400%	500MA	800MA
—	—	—	400	—	—	382	MAL36600-40M	700%	800%	1000%	1200%	—	—	1300%	500MA	800MA
150	—	350	—	—	—	414	MAL36600-42M	700%	800%	1100%	1300%	—	—	1400%	600MA	900NH
—	—	—	500	—	—	472	MAL36600-44M	700%	1000%	1200%	1400%	—	—	1500%	700MA	1000NH
—	—	400	—	—	—	477	MAL36600-44M	700%	900%	1200%	1400%	—	—	1500%	700MA	1000NH
—	200	—	—	—	—	480	MAL36600-44M	700%	900%	1100%	1400%	—	—	1500%	700MA	1000NH
200	—	—	—	—	—	552	MAL36800-45M	700%	1100%	1300%	1400%	—	—	1400%	800MA	1200NH
—	—	500	—	—	—	590	MAL36800-45M	700%	1000%	1200%	1300%	—	—	1400%	800MA	1200NH
—	250	—	—	—	—	602	MAL36800-45M	700%	1000%	1200%	1200%	—	—	1300%	800MA	1200NH

* Motor full load currents, ½ HP thru 200 HP are taken from Table 430-150 of the 1981 NEC. Above 200 HP from UL 98. Select wire and circuit breakers on basis of horsepower rather than nameplate full load current per 1981 NEC Article 430-6. **Do not use these values to select overload relay thermal units.** See page 13 for selection of thermal units when actual full load current is not known. The voltages listed are rated motor voltages. Corresponding nominal system voltages are 200 to 208, 220 to 240, 440 to 480 and 550 to 600 volts.

● Thermal-Magnetic Breaker recommended trip ratings are approximate for average conditions and based on trip characteristics of Square D circuit breakers and 1981 NEC Tables 430-152 for Inverse Time Circuit Breakers requirements for squirrel cage and synchronous motors with code letters B to E, inclusive for a trip rating not to exceed 200% of the full-load current. Lower trip ratings may be required for motors with code letter A and higher trip ratings for motors without code letters or with code letters F to V inclusive.

Under some conditions the next size larger breaker trip may be necessary to accommodate the starting of the motor and is permitted according to 1981 NEC 430-52. In no case may maximum ratings in table 2 be exceeded.

■ Adjustable instantaneous trip circuit breakers are intended for use in combination with motor starters with overload relays for the protection of motor circuits from short circuits. Other specific applications include rectifiers and resistance welders. These C/B's contain a magnetic trip element in each pole with the trip point adjustable from the front. Interrupting ratings are determined by testing the instantaneous trip C/B in combination with a contactor and overload relay.

Select instantaneous trip C/B's as follows:

1 This selection table is suitable for motors with Locked-Rotor Indicating Code Letters per 1981 NEC Table 430-7 (b) as follows:

Horsepower	Motor Code Letters	Horsepower	Motor Code Letters
½ or less	A-L	5 to 25	A-H
¾ to 1½	A-K	30 to 125	A-G
2 to 3	A-J	150 or more	A-F

For other motors order a special thermal trip circuit breaker with magnetic trip settings for the specific motor — specify motor horsepower, voltage, frequency, full load current and code letter or locked rotor current.

- Determine motor HP rating from the motor nameplate.
- Refer to the table above and select an instantaneous trip C/B with an ampere rating recommended for the HP and voltage involved.
- Select an adjustable trip setting of at least 700%, not to exceed 1300%, of the motor full load amperes (FLA).
- The NEC 1300% maximum setting may be **inadequate** for instantaneous trip circuit breakers to withstand current surges typical of the magnetization current of auto-transformer type reduced voltage starters, or open transition wye-delta starters during transfer from "start" to "run", and constant HP Multi-Speed motors. Select Thermal-Magnetic Circuit Breakers for those applications.
- Part-winding motors, per 1981 NEC 430-3, should have two circuit breakers selected from the above at not more than one half the allowable trip setting for the horsepower rating. The two circuit breakers should operate simultaneously as a disconnecting means per 1981 NEC 430-103.

⓪ Ordinary service for normal starting duty only with acceleration time of 10 seconds or less. Refer to Company for recommended circuit breaker selection for longer acceleration times.

▲ Heavy Service is Jogging or Plugging Duty or Cycling Load with over 25 starts per hour or over 5 starts per minute.

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TRIP CURRENT RATING

CALCULATION OF TRIP CURRENT RATING

Trip Current Rating – Trip current rating is a nominal value which 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 SCG-3 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 389 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 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.

Approximate Trip Current is $16.0 \times 1.25 \times 1.1 = 22$ amperes.

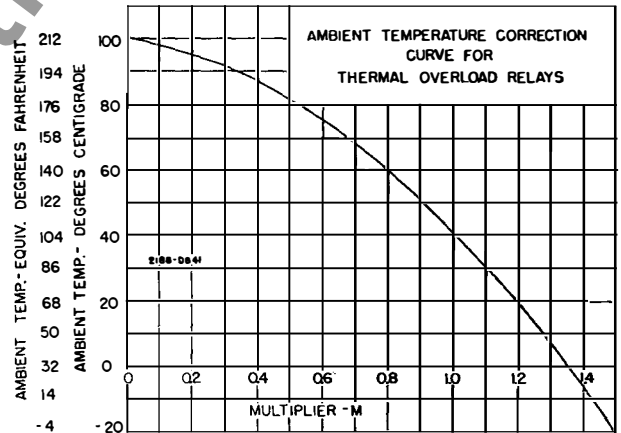


Figure 1

THERMAL UNIT SELECTION INSTRUCTIONS

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. 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 is not known, a tentative thermal unit selection could be made, based on horsepower and voltage. Refer to page 13.

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 full load current for thermal unit selection.
2. For 1.0 service factor motors use 90% of motor full load current for thermal unit selection.

b. Class 8198 only:

1. For 1.0 service factor motors use 100% of motor full load current for thermal unit selection.
2. For 1.15 to 1.25 service factor motors use 110% of motor full load current for thermal unit selection.

3. Motor and controller in different ambient temperatures:

a. Multiply motor full load current by the multiplier in Table A. Use the resultant full load current for thermal unit selection.

4. Locate proper selection table from index, pages 14-16.

a. The proper thermal unit number will be found adjacent, to the right of the range of full load currents in which the motor full load current or resultant full load current falls.

5. See page 11 for calculation of trip current rating.

TABLE A
Selection of Thermal Units for Special Applications

Class of Controller	Continuous Duty Motor Service Factor †	Melting Alloy and Non-Compensated Bimetallic Relays			Ambient Temp. Comp. Relays
		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	Constant 40° C (104° F) or less, for Any Controller Ambient
			Full Load Current Multiplier		
All Classes, Except 8198	1.15 to 1.25	1.0	0.9	1.05	1.0
	1.0	0.9	0.8	.95	0.9
Class 8198	1.15 to 1.25	1.1	1.0	1.15	1.1
	1.0	1.0	0.9	1.05	1.0

† For intermittent duty motors refer to local Square D Field Office.

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 amps controlled by an 8536 SCG-3 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 amps times 93% for 11.16 amps and using this value to select B19.5's. Then add the S prefix to arrive at SB19.5's.

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.

TRIP CURRENT RATING

The design of the Type SB thermal unit is such that it will have a trip current rating 7% higher than that of its Type B counterpart (same number such as SB22 and B22).

THERMAL UNIT SELECTION

APPROXIMATE THERMAL UNIT SELECTION BASED ON HORSEPOWER AND VOLTAGE

General — Thermal units selected using approximate full load currents from the table below 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.

Instructions

1. Locate motor horsepower and voltage.
2. Determine approximate full load current from the table below.
3. Use approximate full load current in place of actual nameplate full load current and follow instructions on page 12.

USE ONLY WHEN MOTOR FULL LOAD CURRENT IS NOT KNOWN.

Motor Horse Power	Motor Full Load Current					
	Three Phase				Single Phase	
	200 V.	230 V.	460 V.	575 V.	115 V.	230 V.
1/20	0.39	0.34	0.17	0.14	1.30	0.65
1/12	0.55	0.48	0.24	0.19	1.90	0.95
1/8	0.74	0.64	0.32	0.26	2.60	1.30
1/6	0.90	0.78	0.39	0.31	3.24	1.62
1/4	1.22	1.06	0.53	0.42	4.40	2.20
1/3	1.52	1.32	0.66	0.53	5.47	2.74
1/2	2.07	1.80	0.90	0.72	7.45	3.73
3/4	2.88	2.50	1.25	1.00	10.1	5.07
1	3.68	3.20	1.60	1.28	12.6	6.31
1½	5.18	4.50	2.25	1.80	17.2	8.59
2	6.67	5.80	2.90	2.32	21.4	10.7
3	9.66	8.40	4.20	3.36	29.1	14.5
5	15.4	13.4	6.68	5.35	42.9	21.4
7½	22.6	19.6	9.82	7.86	58.4	29.2
10	29.7	25.8	12.9	10.3	—	36.3
15	43.6	38.0	19.0	15.2	—	49.4
20	57.4	49.9	24.9	20.0	—	—
25	70.9	61.7	30.8	24.7	—	—
30	84.3	73.3	36.7	29.3	—	—
40	111.	96.4	48.2	38.5	—	—
50	137.	119.	59.6	47.6	—	—
60	163.	142.	70.8	56.6	—	—
75	201.	175.	87.6	70.0	—	—
100	265.	230.	115.	92.0	—	—
125	327.	284.	142.	114.	—	—
150	389.	338.	169.	135.	—	—
200	511.	445.	222.	178.	—	—

NOTE: These currents should not be used for selection of fuses, circuit breakers or wire sizes. See NEC tables 430-148 through 430-150. 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 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. 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.

THERMAL UNIT SELECTION TABLE INDEX

Type of Starter	Class	NEMA Size	Type	Series *	Thermal Unit Selection Table Number																	
					Hand Reset Melting Alloy									Auto Reset Bimetallic								
					Standard Trip			Quick Trip			Slow Trip			Non-Comp.			Compensated					
					1φ	2φ	3φ	1φ	2φ	3φ	1φ	2φ	3φ	1φ	2φ	3φ	1φ	2φ	3φ			
Manual Small Enclosure	2510 2512 8908	FHP	F	A	146	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	2510 2511 2512 8908	M-0	MB, TB	A	195	—	196	185	284	284	♣	—	♣	—	—	—	—	—	—			
		M-1	MC, TC	A	174	—	352	185	284	284	♣	—	♣	—	—	—	—	—	—			
		M-1P	MC, TC	A	174	—	—	185	—	—	♣	—	—	—	—	—	—	—	—			
Manual Large Enclosure	2510 2512 8908	FHP	F	A	146	—	—	—	—	—	—	—	—	—	—	—	—	—				
	2510 2511 2512 8908 8925	M-0	MB, TB	A	175	—	354	186	—	285	♣	—	♣	—	—	—	—	—	—			
		M-1	MC, TC	A	175	—	354	186	—	285	♣	—	♣	—	—	—	—	—	—			
		M-1P	MC, TC	A	175	—	—	186	—	—	♣	—	—	—	—	—	—	—	—			
Manual w/LVP Small Enclosure	2510	M-0	MB, TB	A	497	—	496	—	—	—	♣	—	♣	—	—	—	—	—	—			
		M-1	MC, TC	A	469	—	466	—	—	—	♣	—	♣	—	—	—	—	—	—			
		M-1P	MC, TC	A	469	—	—	—	—	—	♣	—	—	—	—	—	—	—	—			
Manual w/LVP Large Enclosure	2510	M-0	MB, TB	A	470	—	467	—	—	—	♣	—	♣	—	—	—	—	—	—			
		M-1	MC, TC	A	470	—	467	—	—	—	♣	—	♣	—	—	—	—	—	—			
		M-1P	MC, TC	A	470	—	—	—	—	—	♣	—	—	—	—	—	—	—	—			
Manual Loom Switch	2510	M-0	MBL, TBL	A	195	—	196	—	—	—	♣	—	♣	—	—	—	—	—				
DC Magnetic Enclosed	7032 7033	1	C	All	101	—	—	—	—	—	♣	—	—	—	—	—	—	—	—			
	7135 7136	1, 2	HC, HD	—	5	—	—	—	—	—	♣	—	—	—	—	—	—	—	—			
	7735	3	HE	—	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	7736	4	HF	—	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
		5	HG	—	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
AC Magnetic Small Enclosure Except Part-Winding or Wye-Delta	8536 8904♦ 8933 8998 8999 (Model 3 MCC)	00	A (Non-Rev.)	B, C	23	294	183	—	—	—	—	—	—	—	—	—	—	—	—			
		00	SA	A	—	—	452	—	—	—	—	—	—	—	—	—	—	—	—			
		0	SB	A	388	18	389	380	13	13	♣	♣	♣	371	158	189	—	—	182★			
		1	SC	A	388	18	389	380	13	13	♣	♣	♣	371	158	189	—	—	182★			
		1P	SC	A	152	—	—	—	—	—	♣	—	—	—	—	—	—	—	—			
		2	SD	A	110	110	362	122	122	122	♣	♣	♣	179	179	192	—	—	156			
		3	SE	A	169	164	281	—	223●	223●	—	—	⊕	173	173	173	365▲	365▲	365▲			
		4	SF	A	—	270	226	—	231●	231●	—	—	—	—	276	235	—	367▲	367▲			
		5	SG	A	—	—	245	—	—	—	—	—	—	—	—	255	—	—	198			
		6	SH	A, B	—	—	339	—	—	—	—	—	♣	—	—	341	—	—	343			
		7	J	A, B	—	—	126	—	—	—	—	—	♣	—	—	39	—	—	39			
AC Magnetic Small Enclosure Except Part-Winding or Wye-Delta	8998 8999 (Model 4 MCC)	1	SC	Fusible	A	—	153	—	—	13	—	—	♣	—	—	191	—	—	182★			
				Circuit Breaker	A	—	391	—	—	13	—	—	♣	—	—	191	—	—	182★			
		2	SC	Fusible	A	—	154	—	—	122	—	—	♣	—	—	194	—	—	156			
				Circuit Breaker	A	—	363	—	—	122	—	—	♣	—	—	194	—	—	156			
		3	SE	Small Encl. †	A	—	283	—	223●	223●	—	—	⊕	173	—	172	365▲	365▲	365▲			
				Large Encl. †	A	—	282	—	223●	223●	—	—	⊕	173	—	172	365▲	365▲	365▲			
		4	SF	A	—	270	227	—	231●	231●	—	—	—	—	276	236	—	367▲	367▲			
		5	SG	A	—	—	246	—	—	—	—	—	—	—	—	256	—	—	198			
	5	SH	A, B	—	—	339	—	—	—	—	—	—	—	—	341	—	—	343				
	7	J	A, B	—	—	126	—	—	—	—	—	—	—	—	39	—	—	39				
	8	K	A, B	—	—	126	—	—	—	—	—	—	—	—	39	—	—	39				

See Page 16 for footnotes

THERMAL UNIT SELECTION TABLE INDEX

Type of Starter	Class	NEMA Size	Type	Series *	Thermal Unit Selection Table Number														
					Hand Reset Melting Alloy						Auto Reset Bimetallic								
					Standard Trip			Quick Trip			Slow Trip			Non-Comp.		Compensated			
					1φ	2φ	3φ	1φ	2φ	3φ	1φ	2φ	3φ	1φ	2φ	3φ			
AC Magnetic Large Enclosure Except Part-Winding or Wye-Delta	8198	—	C, S	—	—	—	1	—	—	—	—	—	—	—	—	—	—	2	
	8536□	00	A (Non-Rev.)	B, C	22	295	184	—	—	—	—	—	—	—	—	—	—	—	
	8538																		
	8539	00	SA	A	394	—	395	—	—	—	—	—	—	—	—	—	—	381★	
	8547	0	SB	A	390	19	391	379	12	12	—	—	—	—	—	—	—	182★	
	8606	1	SC	A	390	19	391	379	12	—	—	—	—	—	—	—	—	182★	
	8650	1P	SC	A	152	—	—	—	—	—	—	—	—	—	—	—	—	—	
	8736	2	SD	A	111	111	363	120	120	120	—	—	—	—	—	—	—	156	
	8738	3	SE	A	170	165	283	—	225●	225●	—	—	—	—	—	—	—	365▲	
	8739	4	SF	A	—	271	227	—	232●	232●	—	—	—	—	—	—	—	367▲	
	8810	5	SG	A	—	—	246	—	—	—	—	—	—	—	—	—	—	198	
	8811	6	SH	A, B	—	—	340	—	—	—	—	—	—	—	—	—	—	343	
	8812																		
	8904♦	7	J	A, B	—	—	126	—	—	—	—	—	—	—	—	—	—	39	
	8906	8	K	A, B	—	—	126	—	—	—	—	—	—	—	—	—	—	39	
	8907																		
	8920																		
	8922																		
8924																			
8925																			
8930																			
8941																			
QMB I-Line																			
AC Magnetic Wye-Delta	8630	1	SC	A	—	—	199	—	—	—	—	—	—	—	—	—	—	200	
		2	SD	A	—	—	202	—	—	—	—	—	—	—	—	—	—	203	
		3	SE	A	—	—	205	—	—	—	—	—	—	—	—	—	—	—	
		4	SF	A	—	—	237	—	—	—	—	—	—	—	—	—	—	—	
		5	SG	A	—	—	260	—	—	—	—	—	—	—	—	—	—	—	
		6	SH	A, B	—	—	346	—	—	—	—	—	—	—	—	—	—	—	
AC Magnetic Part-Winding	8640 QMB I-Line	1	SC	A	—	—	207	—	—	—	—	—	—	—	—	—	—	208	
		2	SD	A	—	—	211	—	—	—	—	—	—	—	—	—	—	212	
		3	SE	A	—	—	215	—	—	—	—	—	—	—	—	—	—	—	
		4	SF	A	—	—	239	—	—	—	—	—	—	—	—	—	—	—	
		5	SG	A	—	—	262	—	—	—	—	—	—	—	—	—	—	—	
		6	SH	A, B	—	—	344	—	—	—	—	—	—	—	—	—	—	—	
	8998 (Model 4 MCC)	1	SC	A	—	—	207	—	—	—	—	—	—	—	—	—	—	—	208
		2	SD	A	—	—	211	—	—	—	—	—	—	—	—	—	—	—	212
		3	SE	A	—	—	215	—	—	—	—	—	—	—	—	—	—	—	—
		4	SF	A	—	—	239	—	—	—	—	—	—	—	—	—	—	—	—
		5	SG	A	—	—	262	—	—	—	—	—	—	—	—	—	—	—	—
		6	SH	A, B	—	—	361	—	—	—	—	—	—	—	—	—	—	—	—
AC Magnetic Well Guard	8940	1	C, BC WC, XC	A	—	—	—	379	12	12	—	—	—	—	—	—	—	182	
		2	D, BD WD, XD	A	—	—	—	120	120	120	—	—	—	—	—	—	—	156	
		3	E, RE, VE WE, XE	A	—	—	—	—	—	225	—	—	—	—	—	—	—	—	
		4	F	A	—	—	—	—	—	232	—	—	—	—	—	—	—	—	
		4	RF, VF WF, XF	A	—	—	—	—	—	232	—	—	—	—	—	—	—	—	
		5	RG, VG WG, XX	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
AC Magnetic Well Guard Part-Winding	8940	6	VH, XH	A, B	—	—	—	—	—	—	—	—	—	—	—	—	—	343	
		2	HD, PD	A	—	—	—	—	—	—	—	—	—	—	—	—	—	156‡	
		3	ME, PE	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
		4	MF, PF	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
		5	MG, PG	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

See Page 16 for footnotes

THERMAL UNIT SELECTION TABLE INDEX

Type of Starter	Class	Size	Type	Series *	Thermal Unit Selection Table Number														
					Hand Reset Melting Alloy									Auto Reset Bimetallic					
					Standard Trip			Quick Trip			Slow Trip			Non-Comp.			Compensated		
					1 T.U.	2 T.U.	3 T.U.	1 T.U.	2 T.U.	3 T.U.	1 T.U.	2 T.U.	3 T.U.	1 T.U.	2 T.U.	3 T.U.	1 T.U.	2 T.U.	3 T.U.
Separately Mounted Overload Relay Small Enclosure	9065	1(26A)	C	A	86	...	...	89	...	...	...	...	...	...	...	...	...	...
			S	A	355	355	9	...	148	148	...	...	...	...	217	217	...	...	374★
			AR	A	...	...	...	...	...	...	...	...	...	92	...	...	...	...	...
		2(45A)	T	A	88	...	...	...	...	...	...	...	...	...	...	...	...	...	...
			S	A	356	356	141	...	140	140	...	...	...	...	219	219	...	...	197
			AT	A	...	...	...	...	...	...	...	...	...	93	...	...	...	...	...
		3(86A)	U	—	90	...	...	...	...	...	...	...	...	...	...	...	...	...	...
			S	A	...	176	176	...	...	...	...	...	...	...	...	...	...	...	...
			AU	—	...	...	...	...	...	...	...	...	...	94	...	...	...	...	...
	4(133A)	SAU	A	...	...	...	...	...	...	...	...	...	94	...	...	...	...	...
		F	B	91	...	...	249●	...	...	...	...	...	...	...	...	...	...	...
		S	A	...	229	229	...	...	...	...	...	...	...	...	...	...	...	...
	5(266A)	AF	B	...	...	...	...	...	...	...	...	...	...	234	...	...	...	...
		SAF	A	...	...	...	...	...	...	...	...	...	234	...	...	...	...	...
		G	A	109	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Separately Mounted Overload Relay Large Enclosure	9065	1(26A)	C	A	86	...	...	89	...	...	...	...	...	...	...	...	...
				S	A	355	355	9	...	148	148	...	...	...	...	218	218	...	374★
				AR	A	...	...	...	...	...	...	...	...	...	92	...	...	...	...
2(45A)			T	A	88	...	...	...	...	...	...	...	...	...	...	...	...	...	...
			S	A	356	356	141	...	140	140	...	...	...	...	220	220	...	...	197
			AT	A	...	...	...	...	...	...	...	...	...	93	...	...	...	...
3(86A)			U	—	90	...	...	...	...	...	...	...	...	...	...	...	...	...	...
			S	A	...	177	177	...	...	...	...	...	...	...	...	...	...	...	...
			AU	—	...	...	...	...	...	...	...	...	...	94	...	...	...	...	...
4(133A)	SAU	A	...	...	...	...	...	...	...	...	...	94	...	...	...	...	...
	F	B	91	...	...	249●	...	...	...	...	...	...	...	...	...	...	...
	S	A	...	230	230	...	...	...	...	...	...	...	...	...	...	...	...
5(266A)	AF	B	...	...	...	...	...	...	...	...	...	...	233	...	...	...	...
	SAF	A	...	...	...	...	...	...	...	...	...	233	...	...	...	...	...
	G	A	109	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5(266A)	S	A	109	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	AG	A	...	...	...	...	...	...	...	...	...	96	...	...	...	...	...

- The majority of listings have been divided into two categories: Small enclosure and large enclosure. **Small Enclosure** refers to a starter in its own enclosure. **Large Enclosure** refers to a starter used in multimotor panel or in conjunction with other equipment in the same enclosure.
- * 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.
- ◆ This device will accept Type SB slow trip (Class 30) thermal units. For selection, see instructions on page 12.
- ◆ 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.
- ★ Applies to Series B devices only.
- **Form Y 81 must be specified in order to use quick trip (Class 10) thermal units on Type S Size 3 or 4 starters.**
- ▲ Order Type E thermal units by number from Square D Company, Furnas Electric Company, Batavia, Illinois or a Furnas distributor.
- ⊕ Form Y 81 must be specified in order to use Type SB slow trip (Class 20) thermal units. For selection, consult local Square D Field Office.
- † In the case of Model 4MCC, large enclosure refers to autotransformer, reduced voltage starter all other versions are considered small enclosure.
- ‡ To select thermal units for part-winding devices using this table, divide the total motor full load current by two.

SELECTION TABLES 1 thru 8

TABLE 1

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 Full Load Current										
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.-392.	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.	393.-446.	B 5.50

TABLE 2

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 Full Load Current										
10.6-11.9	21.2-23.9	31.8-35.9	42.4-47.9	63.6- 72.0	84.8- 96.0	106.-119.	127.-143.	170.-191.	212.-239.	AR 3.62
12.0-13.4	24.0-26.9	36.0-40.3	48.0-53.8	72.1- 80.8	96.1-107.	120.-134.	144.-161.	192.-215.	240.-269.	AR 3.98
13.5-15.0	27.0-30.0	40.4-45.1	53.9-60.1	80.9- 90.2	108. -119.	135.-150.	162.-180.	216.-240.	270.-300.	AR 4.37
15.1-16.6	30.1-33.4	45.2-50.1	60.2-66.9	90.3- 99.4	120. -133.	151.-166.	181.-200.	241.-267.	301.-334.	AR 4.80
16.7-18.7	33.5-37.5	50.2-56.3	67.0-75.1	100. -112.	134. -149.	167.-187.	201.-225.	268.-300.	335.-375.	AR 5.3
18.8-20.7	37.6-41.4	56.4-62.2	75.2-82.9	113. -124.	150. -165.	188.-207.	226.-248.	301.-331.	376.-414.	AR 5.8
20.8-22.8	41.5-45.7	62.3-68.5	83.0-91.4	125. -136.	166. -182.	208.-228.	249.-274.	332.-365.	415.-457.	AR 6.4

TABLE 5

Motor Full-Load Current (Amp.)	Thermal 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.
—	B 36.
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 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 7

Motor Full-Load Current (Amp.)	Thermal 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.
89.3-96.5	CC 112.
96.6-104.	CC 121.
105.-113.	CC 132.
114.-123.	CC 143.
124.-132.	CC 156.
133.-150.	CC 167.

TABLE 8

Motor Full-Load Current (Amp.)	Thermal Number
Following Selections For Size 5 Only	
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 285.
239.-263.	DD 280.
264.-300.	DD 300.

SELECTION TABLES 9 thru 18

TABLE 9

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.29-0.31	B 0.44	0.6
0.32-0.35	B 0.51	0.6
0.36-0.38	B 0.57	0.8
0.39-0.46	B 0.63	0.8
0.47-0.55	B 0.71	1
0.56-0.62	B 0.81	1.25
0.63-0.67	B 0.92	1.4
0.68-0.75	B 1.03	1.4
0.76-0.84	B 1.16	1.6
0.85-0.95	B 1.30	1.8
0.96-1.09	B 1.45	2
1.10-1.21	B 1.67	2.25
1.22-1.35	B 1.88	2.5
1.36-1.53	B 2.10	2.8
1.54-1.73	B 2.40	3.2
1.74-1.90	B 2.65	3.5
1.91-2.14	B 3.00	4
2.15-2.34	B 3.30	4.5
2.35-2.67	B 3.70	5
2.68-3.22	B 4.15	5.6
3.23-3.48	B 4.85	7
3.49-3.87	B 5.50	7
3.88-4.14	B 6.25	8
4.15-4.73	B 6.90	9
4.74-5.28	B 7.70	10
5.29-5.64	B 8.20	10
5.65-6.39	B 9.10	12
6.40-7.43	B 10.2	12
7.44-8.55	B 11.5	15
8.56-9.40	B 12.8	17.5
9.41-10.0	B 14	20
10.1-11.2	B 15.5	20
11.3-12.5	B 17.5	25
12.6-13.5	B 19.5	25
13.6-15.4	B 22	30
15.5-17.5	B 25	30
		600V. Max.
		250V. Max.
17.6-19.9	B 28.0	30
20.0-22.2	B 32	30
22.3-25.5	B 36	30
25.6-26.0	B 40	30

TABLE 12

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
2.26-2.51	FB 3.33	5
2.52-2.81	FB 3.71	5.6
2.82-3.09	FB 4.1	6.25
3.10-3.30	FB 4.5	6.25
3.31-3.69	FB 4.75	7
3.70-4.27	FB 5.3	8
4.28-4.72	FB 6.1	9
4.73-5.25	FB 6.75	10
5.26-5.53	FB 7.45	10
5.54-5.81	FB 7.8	12
5.82-6.14	FB 8.21	12
6.15-6.44	FB 8.6	12
6.45-6.81	FB 9.0	12
6.82-7.19	FB 9.5	15
7.20-7.59	FB 10	15
7.60-7.99	FB 10.6	15
8.00-8.17	FB 11.2	17.5
8.18-8.74	FB 12.1	17.5

(Cont'd)

TABLE 12 Continued

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
8.75-9.31	FB 13.1	17.5
9.32-9.94	FB 13.9	20
9.95-10.5	FB 14.8	20
10.6-11.1	FB 15.6	20
		600V. Max.
		250V. Max.
11.2-12.0	FB 16.4	20
		25
Following Selections for Size 1 Only		
12.0-12.4	FB 17.6	25
12.5-13.1	FB 18.4	25
13.2-14.3	FB 19.4	25
14.4-15.3	FB 21.1	30
15.4-15.9	FB 22.6	30
16.0-16.9	FB 23.6	30
17.0-18.3	FB 24.8	30
18.4-19.5	FB 26.7	30
19.6-20.5	FB 28.3	30
20.6-21.1	FB 29.6	30
21.2-22.6	FB 30.5	30
22.7-23.7	FB 32.6	30
23.8-24.3	FB 34.1	30
24.4-26.0	FB 35	30

TABLE 13

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
2.23-2.47	FB 3.33	5
2.48-2.76	FB 3.71	5
2.77-3.04	FB 4.1	5.6
3.05-3.24	FB 4.5	6.25
3.25-3.61	FB 4.75	7
3.62-4.19	FB 5.3	8
4.20-4.62	FB 6.1	9
4.63-5.14	FB 6.75	10
5.15-5.39	FB 7.45	10
5.40-5.69	FB 7.8	12
5.70-5.99	FB 8.21	12
6.00-6.29	FB 8.6	12
6.30-6.64	FB 9.0	12
6.65-6.99	FB 9.5	12
7.00-7.39	FB 10	15
7.40-7.79	FB 10.6	15
7.80-7.94	FB 11.2	17.5
7.95-8.49	FB 12.1	17.5
8.50-8.99	FB 13.1	17.5
9.00-9.59	FB 13.9	20
9.60-10.1	FB 14.8	20
10.2-10.6	FB 15.6	20
10.7-11.3	FB 16.4	20
		600V. Max.
		250V. Max.
11.4-12.0	FB 17.6	20
		25
Following Selections for Size 1 Only		
12.0-12.6	FB 18.4	25
12.7-13.8	FB 19.4	25
13.9-14.7	FB 21.1	30
14.8-15.2	FB 22.6	30
15.3-16.2	FB 23.6	30
16.3-17.4	FB 24.8	30
17.5-18.5	FB 26.7	30
18.6-19.6	FB 28.3	30
19.7-20.2	FB 29.6	30

(Cont'd)

TABLE 13 Continued

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
20.3-21.5	FB 30.5	30
21.6-22.4	FB 32.6	30
22.5-23.2	FB 34.1	30
23.3-24.3	FB 35	30
24.4-25.4	FB 36.6	30
25.5-26.0	FB 38.3	30

TABLE 18

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.29-0.31	B 0.44	0.6
0.32-0.34	B 0.51	0.6
0.35-0.38	B 0.57	0.6
0.39-0.45	B 0.63	0.8
0.46-0.54	B 0.71	1
0.55-0.61	B 0.81	1.125
0.62-0.66	B 0.92	1.25
0.67-0.73	B 1.03	1.4
0.74-0.81	B 1.16	1.6
0.82-0.94	B 1.30	1.8
0.95-1.05	B 1.45	2
1.06-1.22	B 1.67	2.25
1.23-1.34	B 1.88	2.5
1.35-1.51	B 2.10	2.8
1.52-1.71	B 2.40	3.2
1.72-1.93	B 2.65	3.5
1.94-2.14	B 3.00	4
2.15-2.40	B 3.30	4.5
2.41-2.72	B 3.70	5
2.73-3.15	B 4.15	5.6
3.16-3.55	B 4.85	7
3.56-4.00	B 5.50	8
4.01-4.40	B 6.25	9
4.41-4.88	B 6.90	9
4.89-5.19	B 7.70	10
5.20-5.73	B 8.20	10
5.74-6.39	B 9.10	12
6.40-7.13	B 10.2	12
7.14-7.90	B 11.5	15
7.91-8.55	B 12.8	17.5
8.56-9.53	B 14	17.5
9.54-10.6	B 15.5	20
10.7-11.8	B 17.5	20
		600V. Max.
		250V. Max.
11.9-12.0	B 19.5	20
		25
Following Selections for Size 1 Only		
11.9-13.2	B 19.5	25
13.3-14.9	B 22	25
15.0-16.6	B 25	30
16.7-18.9	B 28.0	30
19.0-21.2	B 32	30
21.3-23.0	B 36	30
23.1-25.5	B 40	30
25.6-26.0	B 45	30

SELECTION TABLES 19 thru 23

TABLE 19

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		600V. Max.	250V. Max.
0.31-0.33	B 0.44	0.6	
0.34-0.36	B 0.51	0.6	
0.37-0.40	B 0.57	0.8	
0.41-0.48	B 0.63	0.8	
0.49-0.57	B 0.71	1	
0.58-0.64	B 0.81	1.25	
0.65-0.70	B 0.92	1.4	
0.71-0.77	B 1.03	1.4	
0.78-0.85	B 1.16	1.6	
0.86-0.99	B 1.30	1.8	
1.00-1.10	B 1.45	2.25	
1.11-1.28	B 1.67	2.25	
1.29-1.41	B 1.88	2.8	
1.42-1.58	B 2.10	2.8	
1.59-1.80	B 2.40	3.5	
1.81-2.03	B 2.65	4	
2.04-2.25	B 3.00	4.5	
2.26-2.51	B 3.30	5	
2.52-2.83	B 3.70	5.6	
2.84-3.29	B 4.15	6.25	
3.30-3.75	B 4.85	7	
3.76-4.22	B 5.50	8	
4.23-4.65	B 6.25	9	
4.66-5.16	B 6.90	10	
5.17-5.53	B 7.70	10	
5.54-6.09	B 8.20	12	
6.10-6.80	B 9.10	12	
6.81-7.60	B 10.2	15	
7.61-8.35	B 11.5	15	
8.36-9.04	B 12.8	17.5	
9.05-9.99	B 14	20	
10.0-11.1	B 15.5	20	
11.2-12.0	B 17.5	20	25
Following Selections for Size 1 Only			
11.2-12.3	B 17.5	25	25
12.4-13.7	B 19.5	25	25
13.8-15.4	B 22	30	30
15.5-17.2	B 25	30	30
17.3-19.4	B 28.0	30	35
19.5-21.7	B 32	30	40
21.8-23.9	B 36	30	40
24.0-26.0	B 40	30	40

TABLE 22

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.177-0.195	A .22	0.3
0.196-0.215	A .23	0.4
0.216-0.238	A .26	0.4
0.239-0.263	A .27	0.5
0.264-0.291	A .31	0.5
0.292-0.322	A .34	0.5
0.323-0.356	A .37	0.6
0.357-0.394	A .39	0.8
0.395-0.429	A .47	0.8
0.43-0.47	A .49	0.8
0.48-0.51	A .54	1
0.52-0.56	A .59	1.125
0.57-0.64	A .65	1.25
0.65-0.69	A .71	1.4
0.70-0.76	A .78	1.4
0.77-0.84	A .86	1.6
0.85-0.91	A .95	1.8
0.92-1.01	A 1.02	2
1.02-1.15	A 1.16	2.25
1.16-1.23	A 1.25	2.25
1.24-1.37	A 1.39	2.25
1.38-1.45	A 1.54	2.8
1.46-1.56	A 1.63	3.2
1.57-1.67	A 1.75	3.5
1.68-1.77	A 1.86	3.5
1.78-1.92	A 1.99	4
1.93-2.09	A 2.15	4
2.10-2.31	A 2.31	4.5
2.32-2.56	A 2.57	5
2.57-2.92	A 2.81	5.6
2.93-3.16	A 3.61	6.25
3.17-3.48	A 3.95	7
3.49-3.83	A 4.32	7
3.84-4.24	A 4.79	8
4.25-4.62	A 5.30	9
4.63-4.92	A 5.78	10
4.93-5.61	A 6.20	10
5.62-5.85	A 6.99	12
5.86-6.36	A 7.65	12
6.37-6.99	A 8.38	12
7.00-7.67	A 9.25	12
7.68-8.15	A 9.85	12
8.16-9.00	A 11.0	12

TABLE 23

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.167-0.184	A .22	0.3
0.185-0.204	A .23	0.4
0.205-0.226	A .26	0.4
0.227-0.251	A .27	0.5
0.252-0.279	A .31	0.5
0.280-0.309	A .34	0.6
0.310-0.344	A .37	0.6
0.345-0.381	A .39	0.6
0.382-0.419	A .47	0.8
0.42-0.46	A .49	0.8
0.47-0.50	A .54	1
0.51-0.55	A .59	1.125
0.56-0.62	A .65	1.25
0.63-0.67	A .71	1.4
0.68-0.73	A .78	1.4
0.74-0.81	A .86	1.6
0.82-0.89	A .95	1.8
0.90-0.98	A 1.02	2
0.99-1.12	A 1.16	2
1.13-1.20	A 1.25	2.25
1.21-1.34	A 1.39	2.25
1.35-1.41	A 1.54	2.8
1.42-1.51	A 1.63	2.8
1.52-1.62	A 1.75	3.2
1.63-1.73	A 1.86	3.5
1.74-1.86	A 1.99	3.5
1.87-2.02	A 2.15	4
2.03-2.25	A 2.31	4.5
2.26-2.46	A 2.57	5
2.47-2.77	A 2.81	5
2.78-2.99	A 3.61	6.25
3.00-3.26	A 3.95	6.25
3.27-3.59	A 4.32	7
3.60-3.99	A 4.79	8
4.00-4.42	A 5.30	9
4.43-4.61	A 5.78	9
4.62-5.23	A 6.20	10
5.24-5.39	A 6.99	10
5.40-5.88	A 7.65	12
5.89-6.56	A 8.38	12
6.57-7.18	A 9.25	12
7.19-7.80	A 9.85	12
7.81-9.00	A 11.0	12

SELECTION TABLES 39 thru 89

TABLE 39

Size 7	Size 8	Thermal Unit Number
Type J	Type K	
Current Transformer Ratio		
1200/5	2000/5	
Motor Full-Load Current		Thermal Unit Number
Non-Compensated		
136.-150.	227.-251.	AR 1.05
151.-165.	252.-276.	AR 1.15
166.-183.	277.-305.	AR 1.26
184.-202.	306.-337.	AR 1.39
203.-224.	338.-373.	AR 1.53
225.-267.	374.-445.	AR 1.68
268.-293.	446.-489.	AR 1.85
294.-319.	490.-532.	AR 2.04
320.-349.	553.-582.	AR 2.24
350.-381.	583.-636.	AR 2.46
382.-418.	637.-697.	AR 2.71
419.-459.	698.-766.	AR 2.98
460.-509.	767.-849.	AR 3.28
510.-565.	850.-942.	AR 3.62
566.-604.	943.-1007.	AR 3.98
605.-697.	1008.-1133.	AR 4.37
680.-753.	—	AR 4.80
Compensated		
161.-177.	268.-295.	AR 1.26
178.-196.	296.-327.	AR 1.39
197.-217.	328.-363.	AR 1.53
218.-253.	364.-423.	AR 1.68
254.-277.	424.-463.	AR 1.85
278.-301.	464.-503.	AR 2.04
302.-325.	504.-543.	AR 2.24
326.-354.	544.-592.	AR 2.46
355.-381.	593.-635.	AR 2.71
382.-419.	636.-699.	AR 2.98
420.-467.	700.-779.	AR 3.28
468.-529.	780.-883.	AR 3.62
530.-594.	884.991.	AR 3.98
595.-664.	992.-1107.	AR 4.37
665.-738.	1108.-1231.	AR 4.80
739.-829.	—	AR 5.30
—	—	AR 5.8
—	—	AR 6.4

TABLE 86

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.34-0.38	B 0.44	0.6
0.39-0.43	B 0.51	0.8
0.44-0.48	B 0.57	0.8
0.49-0.53	B 0.63	1
0.54-0.62	B 0.71	1.125
0.63-0.69	B 0.81	1.4
0.70-0.78	B 0.92	1.4
0.79-0.88	B 1.03	1.6
0.89-0.99	B 1.16	2
1.00-1.10	B 1.30	2.25
1.11-1.26	B 1.45	2.25
1.27-1.43	B 1.67	2.8
1.44-1.59	B 1.88	3.2
1.60-1.81	B 2.10	3.5
1.82-2.00	B 2.40	4
2.01-2.28	B 2.65	4.5
2.29-2.52	B 3.00	5
2.53-2.87	B 3.30	5.6
2.88-3.28	B 3.70	6.25
3.29-3.75	B 4.15	7
3.76-4.27	B 4.85	8

(Cont'd)

TABLE 86 Continued

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
4.28-4.77	B 5.50	9
4.78-5.27	B 6.25	10
5.28-5.91	B 6.90	10
5.92-6.25	B 7.70	12
6.26-6.83	B 8.20	12
6.84-7.65	B 9.10	15
7.66-8.55	B 10.2	15
8.56-9.56	B 11.5	17.5
9.57-10.3	B 12.8	20
10.4-11.3	B 14	20
11.4-12.4	B 15.5	25
12.5-14.1	B 17.5	25
14.2-15.7	B 19.5	30
		600V. Max.
		250V. Max.
15.8-17.9	B 22	30
18.0-20.1	B 25	30
20.2-22.5	B 28.0	30
22.6-25.0	B 32	30

TABLE 88

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.31-0.35	B 0.44	0.6
0.36-0.39	B 0.51	0.8
0.40-0.44	B 0.57	0.8
0.45-0.50	B 0.63	1
0.51-0.58	B 0.71	1.125
0.59-0.65	B 0.81	1.25
0.66-0.73	B 0.92	1.4
0.74-0.82	B 1.03	1.6
0.83-0.92	B 1.16	1.8
0.93-1.03	B 1.30	2
1.04-1.19	B 1.45	2.25
1.20-1.34	B 1.67	2.5
1.35-1.50	B 1.88	2.8
1.51-1.67	B 2.10	3.2
1.68-1.89	B 2.40	3.5
1.90-2.14	B 2.65	4
2.15-2.36	B 3.00	4.5
2.37-2.65	B 3.30	5
2.66-2.97	B 3.70	5.6
2.98-3.47	B 4.15	6.25
3.48-3.94	B 4.85	7
3.95-4.44	B 5.50	8
4.45-4.94	B 6.25	10
4.95-5.52	B 6.90	10
5.53-5.88	B 7.70	12
5.89-6.52	B 8.20	12
6.53-7.31	B 9.10	12
7.32-8.21	B 10.2	15
8.22-9.18	B 11.5	17.5
9.19-9.90	B 12.8	20
10.0-11.0	B 14	20
11.1-12.4	B 15.5	20
12.5-13.9	B 17.5	25
14.0-15.7	B 19.5	30
15.8-17.8	B 22	35
17.9-20.0	B 25	40

(Cont'd)

TABLE 88 Continued

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
20.1-22.9	B 28.0	45
23.0-25.7	B 32	50
25.8-28.6	B 36	50
28.7-32.2	B 40	60
32.3-35.8	B 45	60
35.9-40.1	B 50	60
40.2-45.0	B 56	60

TABLE 89

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
2.36-2.63	FB 3.33	5
2.64-2.96	FB 3.71	5.6
2.97-3.23	FB 4.1	6.25
3.24-3.45	FB 4.5	7
3.46-3.86	FB 4.75	7
3.87-4.44	FB 5.3	8
4.45-4.95	FB 6.1	10
4.96-5.47	FB 6.75	10
5.48-5.75	FB 7.45	12
5.76-6.09	FB 7.8	12
6.10-6.42	FB 8.21	12
6.43-6.75	FB 8.6	12
6.76-7.16	FB 9.0	15
7.17-7.43	FB 9.5	15
7.44-7.99	FB 10	15
8.00-8.46	FB 10.6	17.5
8.47-9.19	FB 11.2	17.5
9.20-9.74	FB 12.1	20
9.75-10.3	FB 13.1	20
10.4-10.8	FB 13.9	20
10.9-11.6	FB 14.8	20
11.7-12.2	FB 15.6	25
12.3-13.1	FB 16.4	25
13.2-13.7	FB 17.6	25
13.8-14.3	FB 18.4	30
14.4-15.5	FB 19.4	30
		600V. Max.
		250V. Max.
15.6-16.7	FB 21.1	30
16.8-17.6	FB 22.6	30
17.7-18.6	FB 23.6	30
18.7-19.9	FB 24.8	30
20.0-21.1	FB 26.7	30
21.2-25.0	FB 28.3	30

SELECTION TABLES 90 thru 96

TABLE 90

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
15.3-16.7	C 20	30	
16.8-19.8	C 22	35	
19.9-22.8	C 26	40	
22.9-25.8	C 30	50	
25.9-30.4	C 34	50	
30.5-31.9	C 40	60	
32.0-34.2	C 42	70	
34.3-38.8	C 45	70	
38.9-44.2	C 51	80	
44.3-50.2	C 58	90	
		600V. Max.	250V. Max.
50.3-57.1	C 66	100	110
57.2-63.2	C 75	100	125
63.3-68.6	C 83	100	125
68.7-78.6	C 90	100	125
78.7-86.0	C 103	100	125

TABLE 91

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
43.6-47.3	CC 54.5	90
47.4-51.3	CC 59.4	100
51.4-54.6	CC 64.3	110
54.7-59.7	CC 68.5	110
59.8-65.1	CC 74.6	125
65.2-70.1	CC 81.5	125
70.2-75.1	CC 87.7	150
75.2-82.2	CC 94.0	150
82.3-89.2	CC 103	175
89.3-96.5	CC 112	200
96.6-104	CC 121	200
105-113	CC 132	200
114-123	CC 143	200
124-133	CC 156	200

TABLE 92

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
0.33-0.35	AR 45	0.6	
0.36-0.39	AR 49	0.8	
0.40-0.42	AR 54	0.8	
0.43-0.46	AR 59	0.8	
0.47-0.51	AR 65	1	
0.52-0.56	AR 71	1.125	
0.57-0.62	AR 78	1.25	
0.63-0.68	AR 86	1.4	
0.69-0.75	AR 95	1.4	
0.76-0.83	AR 1.05	1.6	
0.84-0.91	AR 1.15	1.8	
0.92-1.00	AR 1.26	2	
1.01-1.10	AR 1.39	2.25	
1.11-1.21	AR 1.53	2.25	
1.22-1.33	AR 1.68	2.5	
1.34-1.47	AR 1.85	2.8	
1.48-1.62	AR 2.04	3.2	
1.63-1.77	AR 2.24	3.5	
1.78-1.96	AR 2.46	4	
1.97-2.16	AR 2.71	4	
2.17-2.37	AR 2.98	4.5	
2.38-2.62	AR 3.28	5	
2.63-2.88	AR 3.62	5.6	
2.89-3.17	AR 3.98	6.25	
3.18-3.48	AR 4.37	7	
3.49-3.83	AR 4.80	7	
3.84-4.20	AR 5.3	8	
4.21-4.62	AR 5.8	9	
4.63-5.08	AR 6.4	10	
5.09-5.57	AR 7.0	10	
5.58-6.13	AR 7.7	12	
6.14-6.83	AR 8.5	12	
6.84-7.41	AR 9.3	15	
7.42-8.05	AR 10.2	15	
8.06-8.98	AR 11.2	17.5	
8.99-9.93	AR 12.4	20	
9.94-10.9	AR 13.6	20	
11.0-12.4	AR 15.4	20	
12.5-14.3	AR 17.6	25	
14.4-15.8	AR 20.5	30	
		600V. Max.	250V. Max.
15.9-17.9	AR 23	30	35
18.0-20.0	AR 27	30	40
20.1-22.4	AR 30	30	40
22.5-25.0	AR 35	30	40

TABLE 93

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
6.84-7.49	AR 9.3	15
7.50-8.05	AR 10.2	15
8.06-9.10	AR 11.2	17.5
9.11-9.99	AR 12.4	20
10.0-11.1	AR 13.6	20
11.2-12.7	AR 15.4	25
12.8-14.8	AR 17.6	25
14.9-16.6	AR 20.5	30
16.7-19.3	AR 23	35
19.4-21.4	AR 27	40
21.5-25.1	AR 30	45
25.2-28.3	AR 35	50
28.4-31.2	AR 40	60
31.3-33.3	AR 44	60
33.4-35.7	AR 47	60
35.8-38.5	AR 51	60
38.6-41.5	AR 55	60
41.6-45.0	AR 60	60

TABLE 94

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
14.4-16.1	AU 20	30	
16.2-18.6	AU 23	35	
18.7-20.5	AU 26	40	
20.6-23.4	AU 29	45	
23.5-26.9	AU 33	50	
27.0-28.3	AU 38	60	
28.4-30.8	AU 40	60	
30.9-35.0	AU 44	60	
35.1-38.8	AU 50	70	
38.9-44.3	AU 56	80	
44.4-49.3	AU 64	90	
		600V. Max.	250V. Max.
49.4-55.5	AU 72	100	110
55.6-61.0	AU 81	100	125
61.1-68.6	AU 88	100	125
68.7-76.3	AU 99	100	125
76.4-86.0	AU 110	100	125

TABLE 96

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
90.6-97.4	AF 110	200
97.5-111	AF 123	200
112-129	AF 135	250
130-149	AF 150	250
150-163	AF 159	300
164-189	AF 168	350
190-213	AF 188	400
214-240	AF 205	400
241-266	AF 220	400

SELECTION TABLES 101 thru 120

TABLE 101

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.29-0.33	B 0.44	3
0.34-0.37	B 0.51	3
0.38-0.41	B 0.57	3
0.42-0.47	B 0.63	3
0.48-0.54	B 0.71	3
0.55-0.61	B 0.81	3
0.62-0.68	B 0.92	3
0.69-0.76	B 1.03	3
0.77-0.86	B 1.16	6
0.87-0.97	B 1.30	6
0.98-1.11	B 1.45	6
1.12-1.25	B 1.67	10
1.26-1.40	B 1.88	10
1.41-1.60	B 2.10	10
1.61-1.77	B 2.40	10
1.78-2.00	B 2.65	10
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 6.26	
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 109

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
92.0-100	DD 112	200
101-109	DD 121	225
110-119	DD 128	225
120-131	DD 140	250
132-139	DD 150	250
140-156	DD 160	300
157-166	DD 185	350
167-180	DD 213	350
181-189	DD 220	400
190-209	DD 230	400
210-225	DD 250	400
226-238	DD 265	400
239-266	DD 280	400

TABLE 110

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
3.29-3.74	B 4.85	7
3.75-4.23	B 5.50	8
4.24-4.68	B 6.25	9
4.69-5.22	B 6.90	10
5.23-5.67	B 7.70	10
5.68-6.13	B 8.20	12
6.14-6.91	B 9.10	12
6.92-7.70	B 10.2	15
7.71-8.56	B 11.5	15
8.57-9.39	B 12.8	17.5
9.40-10.4	B 14	20
10.5-11.6	B 15.5	20
11.7-12.9	B 17.5	25
13.0-14.6	B 19.5	25
14.7-16.5	B 22	30
16.6-18.5	B 25	35
18.6-21.0	B 28.0	40
21.1-24.6	B 32	45
23.7-26.3	B 36	50
26.4-29.3	B 40	50
29.4-35.1	B 45	60
35.2-36.1	B 50	60
36.2-39.1	B 56	60
39.2-41.5	B 62	60
41.6-45.0	B 70	60

TABLE 111

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
3.37-3.82	B 4.85	7
3.83-4.33	B 5.50	8
4.34-4.79	B 6.25	9
4.80-5.33	B 6.90	10
5.34-5.79	B 7.70	12
5.80-6.27	B 8.20	12
6.28-7.03	B 9.10	12
7.04-7.88	B 10.2	15
7.89-8.73	B 11.5	17.5
8.74-9.55	B 12.8	17.5
9.56-10.6	B 14	20
10.7-11.8	B 15.5	20
11.9-13.1	B 17.5	25
13.2-14.9	B 19.5	25
15.0-16.9	B 22	30
17.0-18.8	B 25	35
18.9-21.5	B 28.0	40
21.6-24.1	B 32	45
24.2-26.8	B 36	50
26.9-29.9	B 40	60
30.0-35.5	B 45	60
35.6-36.5	B 50	60
36.6-39.6	B 56	60
39.7-41.5	B 62	60
41.6-45.0	B 70	60

TABLE 120

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
3.31-3.67	FB 4.75	7
3.68-4.23	FB 5.3	8
4.24-4.69	FB 6.1	9
4.70-5.21	FB 6.75	10
5.22-5.49	FB 7.45	10
5.50-5.74	FB 7.8	12
5.75-6.07	FB 8.21	12
6.08-6.35	FB 8.6	12
6.36-6.71	FB 9.0	12
6.72-7.03	FB 9.5	15
7.04-7.53	FB 10	15
7.54-7.91	FB 10.6	15
7.92-8.53	FB 11.2	17.5
8.54-9.14	FB 12.1	17.5
9.15-9.71	FB 13.1	20
9.72-10.2	FB 13.9	20
10.3-10.8	FB 14.8	20
10.9-11.5	FB 15.6	20
11.6-12.3	FB 16.4	25
12.4-13.0	FB 17.6	25
13.1-13.9	FB 18.4	25
14.0-15.1	FB 19.4	30
15.2-16.1	FB 21.1	30
16.2-16.9	FB 22.6	35
17.0-17.9	FB 23.6	35
18.0-19.4	FB 24.8	40
19.5-20.7	FB 26.7	40
20.8-21.7	FB 28.3	45
21.8-22.3	FB 29.6	45
22.4-23.9	FB 30.5	50
24.0-25.1	FB 32.6	50
25.2-25.9	FB 34.1	50
26.0-27.1	FB 35	50
27.2-28.6	FB 36.6	60
28.7-30.1	FB 38.3	60
30.2-31.7	FB 40.2	60
31.8-33.3	FB 42	60
33.4-34.5	FB 44	60
34.6-36.5	FB 46	60
36.6-38.5	FB 48	60
38.6-39.9	FB 50.5	60
40.0-45.0	FB 52.5	60

SELECTION TABLES 122 thru 141

TABLE 122

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
3.22-3.57	FB 4.75	7
3.58-4.14	FB 5.3	8
4.15-4.56	FB 6.1	9
4.57-5.10	FB 6.75	10
5.11-5.39	FB 7.45	10
5.40-5.64	FB 7.8	12
5.65-5.96	FB 8.21	12
5.97-6.25	FB 8.6	12
6.26-6.58	FB 9.0	12
6.59-6.91	FB 9.5	12
6.92-7.41	FB 10	15
7.42-7.82	FB 10.6	15
7.83-8.32	FB 11.2	17.5
8.33-8.89	FB 12.1	17.5
8.90-9.47	FB 13.1	20
9.48-10.0	FB 13.9	20
10.1-10.5	FB 14.8	20
10.6-11.1	FB 15.6	20
11.2-12.0	FB 16.4	25
12.1-12.7	FB 17.6	25
12.8-13.5	FB 18.4	25
13.6-14.6	FB 19.4	30
14.7-15.7	FB 21.1	30
15.8-16.5	FB 22.6	35
16.6-17.4	FB 23.6	35
17.5-18.8	FB 24.8	35
18.9-20.1	FB 26.7	40
20.2-21.0	FB 28.3	45
21.1-21.6	FB 29.6	45
21.7-23.3	FB 30.5	45
23.4-24.3	FB 32.6	50
24.4-25.0	FB 34.1	50
25.1-26.3	FB 35	50
26.4-27.6	FB 36.6	50
27.7-29.1	FB 38.3	60
29.2-30.4	FB 40.2	60
30.5-32.0	FB 42	60
32.1-33.3	FB 44	60
33.4-35.2	FB 46	60
35.3-37.0	FB 48	60
37.1-38.5	FB 50.5	60
38.6-40.7	FB 52.5	60
40.8-45.0	FB 55.5	60

TABLE 126

Size 7 Type J	Size 8 Type K	Thermal Unit Number
Current Transformer Ratio		
1200/5	2000/5	
Motor Full-Load Current		
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

TABLE 141

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
3.38-3.65	B 4.85	7
3.66-4.07	B 5.50	8
4.08-4.36	B 6.25	9
4.37-5.19	B 6.90	9
5.20-5.59	B 7.70	10
5.60-5.98	B 8.20	12
5.99-6.78	B 9.10	12
6.79-7.91	B 10.2	15
7.92-9.12	B 11.5	17.5
9.13-10.0	B 12.8	20
10.1-10.7	B 14	20
10.8-12.0	B 15.5	20
12.1-13.5	B 17.5	25
13.6-14.6	B 19.5	30
14.7-16.7	B 22	30
16.8-18.9	B 25	35
19.0-21.6	B 28.0	40
21.7-24.1	B 32	45
24.2-27.6	B 36	50
27.7-31.2	B 40	60
31.3-35.5	B 45	60
35.6-37.8	B 50	60
37.9-41.5	B 56	60
41.6-45.0	B 62	60

TABLE 140

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
3.38-3.78	FB 4.75	7
3.79-4.37	FB 5.3	8
4.38-4.87	FB 6.1	9
4.88-5.51	FB 6.75	10
5.52-5.73	FB 7.45	12
5.74-6.09	FB 7.8	12
6.10-6.44	FB 8.21	12
6.45-6.75	FB 8.6	12
6.76-7.15	FB 9.0	15
7.16-7.57	FB 9.5	15
7.58-8.07	FB 10	15
8.08-8.47	FB 10.6	17.5
8.48-8.81	FB 11.2	17.5
8.82-9.46	FB 12.1	17.5
9.47-10.1	FB 13.1	20
10.2-10.8	FB 13.9	20
10.9-11.4	FB 14.8	20
11.5-12.1	FB 15.6	25
12.2-13.1	FB 16.4	25
13.2-13.8	FB 17.6	25
13.9-14.8	FB 18.4	30
14.9-16.1	FB 19.4	30
16.2-17.4	FB 21.1	35
17.5-18.3	FB 22.6	35
18.4-19.5	FB 23.6	40
19.6-21.0	FB 24.8	40
21.1-22.5	FB 26.7	45
22.6-23.7	FB 28.3	50
23.8-24.5	FB 29.6	50
24.6-26.4	FB 30.5	50
26.5-27.7	FB 32.6	50
27.8-28.7	FB 34.1	60
28.8-29.9	FB 35	60
30.0-31.8	FB 36.6	60
31.9-33.5	FB 38.3	60
33.6-35.1	FB 40.2	60
35.2-37.1	FB 42	60
37.2-38.8	FB 44	60
38.9-41.1	FB 46	60
41.2-45.0	FB 48	60

SELECTION TABLES 146 thru 153

TABLE 146

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.171-0.188	A .22	0.3
0.189-0.208	A .23	0.4
0.209-0.231	A .26	0.4
0.232-0.255	A .27	0.5
0.256-0.283	A .31	0.5
0.284-0.313	A .34	0.6
0.314-0.347	A .37	0.6
0.348-0.384	A .39	0.6
0.385-0.409	A .47	0.8
0.41-0.44	A .49	0.8
0.45-0.49	A .54	1
0.50-0.53	A .59	1.125
0.54-0.58	A .65	1.125
0.59-0.65	A .71	1.25
0.66-0.71	A .78	1.4
0.72-0.78	A .86	1.6
0.79-0.85	A .95	1.6
0.86-0.96	A 1.02	1.8
0.97-1.04	A 1.16	2
1.05-1.16	A 1.25	2.25
1.17-1.29	A 1.39	2.25
1.30-1.37	A 1.54	2.8
1.38-1.47	A 1.63	2.8
1.48-1.56	A 1.75	3.2
1.57-1.65	A 1.86	3.5
1.66-1.79	A 1.99	3.5
1.80-1.95	A 2.15	4
1.96-2.15	A 2.31	4
2.16-2.38	A 2.57	4.5
2.39-2.75	A 2.81	5
2.76-2.84	A 3.61	5.6
2.85-3.06	A 3.95	6.25
3.07-3.45	A 4.32	6.25
3.46-3.70	A 4.79	7
3.71-4.07	A 5.30	8
4.08-4.32	A 5.78	9
4.33-4.90	A 6.20	9
4.91-5.35	A 6.99	10
5.36-5.85	A 7.65	12
5.86-6.41	A 8.38	12
6.42-6.79	A 9.25	12
6.80-7.57	A 9.85	15
7.58-8.15	A 11.0	15
8.16-8.98	A 11.9	17.5
8.99-9.67	A 13.2	20
9.68-9.95	A 14.1	20
9.96-10.8	A 14.8	20
10.9-12.1	A 16.2	20
12.2-13.1	A 17.9	25
13.2-13.9	A 19.8	25
14.0-15.0	A 21.3	25
15.1-16.0	A 25.2	25

TABLE 148

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
2.30-2.60	FB 3.33	5
2.61-2.87	FB 3.71	5.6
2.88-3.17	FB 4.1	6.25
3.18-3.37	FB 4.5	7
3.38-3.76	FB 4.75	7
3.77-4.29	FB 5.3	8
4.30-4.75	FB 6.1	9
4.76-5.26	FB 6.75	10
5.27-5.51	FB 7.45	10
5.52-5.78	FB 7.8	12
5.79-6.13	FB 8.21	12
6.14-6.41	FB 8.6	12
6.42-6.75	FB 9.0	12
6.76-7.09	FB 9.5	15
7.10-7.57	FB 10.0	15
7.58-7.90	FB 10.6	15
7.91-8.81	FB 11.2	17.5
8.82-9.47	FB 12.1	17.5
9.48-10.0	FB 13.1	20
10.1-10.7	FB 13.9	20
10.8-11.4	FB 14.8	20
11.5-12.1	FB 15.6	25
12.2-13.1	FB 16.4	25
13.2-13.7	FB 17.6	25
13.8-14.7	FB 18.4	30
14.8-16.0	FB 19.4	30
		600V. Max. 250V. Max.
16.1-17.3	FB 21.1	30 35
17.4-18.2	FB 22.6	30 35
18.3-19.4	FB 23.6	30 40
19.5-20.7	FB 24.8	30 40
20.8-22.3	FB 26.7	30 40
22.4-23.5	FB 28.3	30 40
23.6-24.2	FB 29.6	30 40
24.3-26.0	FB 30.5	30 40

TABLE 152 Continued

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
6.62-7.14	B 9.10	12
7.15-7.97	B 10.2	15
7.98-8.15	B 11.5	17.5
8.16-9.32	B 12.8	17.5
9.33-9.97	B 14	20
9.98-10.7	B 15.5	20
10.8-12.0	B 17.5	20
12.1-13.9	B 19.5	25
14.0-15.7	B 22	30
15.8-18.4	B 25	35
18.5-21.6	B 28	40
21.7-24.0	B 32	45
24.1-28.6	B 36	50
28.7-30.7	B 40	50
30.8-33.5	B 45	50
33.6-36.0	B 56	50

TABLE 153

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.31-0.32	B 0.44	0.6
0.33-0.36	B 0.51	0.6
0.37-0.41	B 0.57	0.8
0.42-0.49	B 0.63	0.8
0.50-0.54	B 0.71	1.125
0.55-0.61	B 0.81	1.125
0.62-0.67	B 0.92	1.25
0.68-0.76	B 1.03	1.4
0.77-0.87	B 1.16	1.6
0.88-0.98	B 1.30	1.8
0.99-1.05	B 1.45	2
1.06-1.25	B 1.67	2.25
1.26-1.33	B 1.88	2.8
1.34-1.56	B 2.10	2.8
1.57-1.71	B 2.40	3.5
1.72-1.97	B 2.65	3.5
1.98-2.15	B 3.00	4
2.16-2.42	B 3.30	4.5
2.43-2.78	B 3.70	5
2.79-3.28	B 4.15	6.25
3.29-3.88	B 4.85	7
3.89-4.13	B 5.50	8
4.14-4.43	B 6.25	9
4.44-4.96	B 6.90	9
4.97-5.35	B 7.70	10
5.36-5.91	B 8.20	12
5.92-6.79	B 9.10	12
6.80-7.56	B 10.2	15
7.57-7.83	B 11.5	15
7.84-8.09	B 12.8	17.5
8.10-9.51	B 14	17.5
9.52-10.1	B 15.5	20
10.2-11.3	B 17.5	20
11.4-13.1	B 19.5	25
13.2-14.9	B 22	25
15.0-16.1	B 25	30
		600V. Max. 250V. Max.
16.2-17.8	B 28.0	30 35
17.9-19.1	B 32	30 40
19.2-22.4	B 36	30 40
22.5-23.5	B 40	30 40
23.6-26.0	B 45	30 40

TABLE 152

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.81-0.92	B 1.16	1.8
0.93-1.07	B 1.30	2
1.08-1.14	B 1.45	2.25
1.15-1.26	B 1.67	2.5
1.27-1.49	B 1.88	2.8
1.50-1.73	B 2.10	3.2
1.74-1.89	B 2.40	3.5
1.90-2.16	B 2.65	4
2.17-2.37	B 3.00	4.5
2.38-2.66	B 3.30	5
2.67-2.99	B 3.70	5.6
3.00-3.40	B 4.15	6.25
3.41-3.94	B 4.85	7
3.95-4.15	B 5.50	8
4.16-4.49	B 6.25	9
4.50-5.15	B 6.90	10
5.16-5.77	B 7.70	10
5.78-6.61	B 8.20	12

(Cont'd)

SELECTION TABLES 154 thru 160

TABLE 154

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
3.79-4.14	B 5.50	8
4.15-4.44	B 6.25	9
4.45-5.22	B 6.90	10
5.23-5.29	B 7.70	10
5.30-5.99	B 8.20	10
6.00-6.82	B 9.10	12
6.83-7.68	B 10.2	15
7.69-7.92	B 11.5	15
7.93-8.47	B 12.8	17.5
8.48-9.99	B 14	17.5
10.0-10.8	B 15.5	20
10.9-12.3	B 17.5	20
12.4-12.9	B 19.5	25
13.0-15.1	B 22	25
15.2-16.7	B 25	30
16.8-17.9	B 28.0	35
18.0-20.1	B 32	40
20.2-23.8	B 36	45
23.9-25.8	B 40	50
25.9-28.3	B 45	50
28.4-29.6	B 50	60
29.7-32.1	B 56	60
32.2-34.4	B 62	60
34.5-38.3	B 70	60
38.4-39.9	B 79	60
40.0-45.0	B 88	60

TABLE 156

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
4.24-4.62	AR 8.5	9
4.63-5.05	AR 9.3	10
5.06-5.54	AR 10.2	10
5.55-6.13	AR 11.2	12
6.14-6.44	AR 12.4	12
6.45-7.48	AR 13.6	12
7.49-8.55	AR 15.4	15
8.56-9.74	AR 17.6	17.5
9.75-11.1	AR 20.5	20
11.2-12.7	AR 23	25
12.8-14.4	AR 27	25
14.5-16.4	AR 30	30
16.5-18.9	AR 35	35
19.0-21.6	AR 40	40
21.7-23.3	AR 44	45
23.4-24.9	AR 47	50
25.0-26.9	AR 51	50
27.0-29.1	AR 55	60
29.2-31.3	AR 60	60
31.4-33.5	AR 66	60
33.6-36.9	AR 72	60
37.0-39.1	AR 79	60
39.2-40.9	AR 86	60
41.0-45.0	AR 94	60

TABLE 158

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.37-0.39	AR .45	0.8
0.40-0.42	AR .49	0.8
0.43-0.46	AR .54	0.8
0.47-0.50	AR .59	1
0.51-0.54	AR .65	1.125
0.55-0.59	AR .71	1.125
0.60-0.65	AR .78	1.25
0.66-0.71	AR .86	1.4
0.72-0.78	AR .95	1.6
0.79-0.86	AR 1.05	1.6
0.87-0.94	AR 1.15	1.8
0.95-1.04	AR 1.26	2
1.05-1.14	AR 1.39	2.25
1.15-1.25	AR 1.53	2.5
1.26-1.42	AR 1.68	2.8
1.43-1.62	AR 1.85	3.2
1.63-1.75	AR 2.04	3.5
1.76-1.91	AR 2.24	3.5
1.92-2.07	AR 2.46	4
2.08-2.25	AR 2.71	4
2.26-2.47	AR 2.98	4
2.48-2.73	AR 3.28	5
2.74-2.99	AR 3.62	5.6
3.00-3.31	AR 3.98	6.25
3.32-3.71	AR 4.37	7
3.72-4.15	AR 4.80	7
4.16-4.65	AR 5.3	9
4.66-5.11	AR 5.8	10
5.12-5.68	AR 6.4	10
5.69-6.24	AR 7.0	12
6.25-7.15	AR 7.7	12
7.16-7.84	AR 8.5	15
7.85-8.56	AR 9.3	17.5
8.57-9.40	AR 10.2	17.5
9.41-10.2	AR 11.2	20
10.3-10.7	AR 12.4	20
10.8-12.0	AR 13.6	20
Following Selections for Size 1 Only		
10.8-12.2	AR 13.6	20
12.3-14.1	AR 15.4	25
14.2-15.9	AR 17.6	30
16.0-18.1	AR 20.5	30
18.2-20.8	AR 23	30
20.9-23.6	AR 27	30
23.7-26.0	AR 30	30

TABLE 160

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.38-0.40	AR .45	0.8
0.41-0.43	AR .49	0.8
0.44-0.48	AR .54	0.8
0.49-0.52	AR .59	1
0.53-0.56	AR .65	1.125
0.57-0.61	AR .71	1.25
0.62-0.67	AR .78	1.25
0.68-0.73	AR .86	1.4
0.74-0.81	AR .95	1.6
0.82-0.89	AR 1.05	1.8
0.90-0.97	AR 1.15	2
0.98-1.07	AR 1.26	2
1.08-1.17	AR 1.39	2.25
1.18-1.31	AR 1.53	2.5
1.32-1.49	AR 1.68	2.8
1.50-1.69	AR 1.85	3.2
1.70-1.83	AR 2.04	3.5
1.84-2.00	AR 2.24	4
2.01-2.17	AR 2.46	4
2.18-2.35	AR 2.71	4
2.36-2.60	AR 2.98	4
2.61-2.87	AR 3.28	5.6
2.88-3.14	AR 3.62	6.25
3.15-3.47	AR 3.98	6.25
3.48-3.90	AR 4.37	7
3.91-4.36	AR 4.80	7
4.37-4.88	AR 5.3	9
4.89-5.37	AR 5.8	10
5.38-5.97	AR 6.4	12
5.98-6.55	AR 7.0	12
6.56-7.50	AR 7.7	12
7.51-8.23	AR 8.5	15
8.24-8.99	AR 9.3	17.5
9.00-9.86	AR 10.2	20
9.87-10.7	AR 11.2	20
10.8-11.2	AR 12.4	20
11.3-12.0	AR 13.6	20
600V. Max. 250V. Max.		
Following Selections for Size 1 Only		
11.3-12.8	AR 13.6	25
12.9-14.8	AR 15.4	25
14.9-16.7	AR 17.6	30
16.8-19.0	AR 20.5	30
19.1-22.0	AR 23	30
22.1-24.9	AR 27	30
25.0-26.0	AR 30	30

SELECTION TABLES 164 thru 173

TABLE 164

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
14.4-15.3	CC 20.9	30	
15.4-16.4	CC 22.8	30	
16.5-18.4	CC 24.6	35	
18.5-19.6	CC 26.3	40	
19.7-21.0	CC 28.8	40	
21.1-22.7	CC 31.0	45	
22.8-24.2	CC 33.3	50	
24.3-25.9	CC 36.4	50	
26.0-27.8	CC 39.6	50	
27.9-29.8	CC 42.7	60	
29.9-31.7	CC 46.6	60	
31.8-34.2	CC 50.1	70	
34.3-36.9	CC 54.5	70	
37.0-39.8	CC 59.4	80	
39.9-42.3	CC 64.3	80	
42.4-45.3	CC 68.5	90	
45.4-47.9	CC 74.6	100	
48.0-51.9	CC 81.5	100	
		600V. Max.	250V. Max.
52.0-56.5	CC 87.7	100	110
56.6-60.7	CC 94.0	100	125
60.8-64.8	CC 103	100	125
64.9-67.1	CC 112	100	125
67.2-70.1	CC 121	100	125
70.2-72.9	CC 132	100	125
73.0-74.9	CC 143	100	125
75.0-77.9	CC 156	100	125
78.0-80.9	CC 167	100	125
81.0-82.9	CC 180	100	125
83.0-86.0	CC 196	100	125

TABLE 165

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
15.1-16.2	CC 20.9	30	
16.3-17.3	CC 22.8	35	
17.4-19.5	CC 24.6	35	
19.6-20.7	CC 26.3	40	
20.8-22.3	CC 28.8	45	
22.4-24.0	CC 31.0	50	
24.1-25.7	CC 33.3	50	
25.8-27.5	CC 36.4	50	
27.6-29.6	CC 39.6	60	
29.7-31.7	CC 42.7	60	
31.8-33.9	CC 46.6	70	
34.0-36.6	CC 50.1	70	
36.7-39.3	CC 54.5	80	
39.4-42.3	CC 59.4	80	
42.4-44.9	CC 64.3	90	
45.0-48.3	CC 68.5	100	
48.4-50.9	CC 74.6	100	
		600V. Max.	250V. Max.
51.0-55.5	CC 81.5	100	110
55.6-59.9	CC 87.7	100	125
60.0-64.2	CC 94.0	100	125
64.3-68.7	CC 103	100	125
68.8-71.4	CC 112	100	125
71.5-74.8	CC 121	100	125
74.9-78.0	CC 132	100	125
78.1-80.7	CC 143	100	125
80.8-86.0	CC 156	100	125

TABLE 169

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
15.5-16.4	CC 20.9	30	
16.5-17.6	CC 22.8	35	
17.7-19.1	CC 24.6	35	
19.2-20.4	CC 26.3	40	
20.5-22.1	CC 28.8	45	
22.2-23.4	CC 31.0	45	
23.5-25.6	CC 33.3	50	
25.7-27.3	CC 36.4	50	
27.4-29.4	CC 39.6	60	
29.5-31.5	CC 42.7	60	
31.6-33.7	CC 46.6	70	
33.8-36.5	CC 50.1	70	
36.6-39.1	CC 54.5	80	
39.2-41.7	CC 59.4	80	
41.8-44.8	CC 64.3	90	
44.9-48.0	CC 68.5	100	
48.1-50.7	CC 74.6	100	
50.8-54.9	CC 81.5	110	
55.0-59.9	CC 87.7	110	
60.0-63.3	CC 94.0	125	
63.4-67.2	CC 103	125	
67.3-72.4	CC 112	125	
72.5-74.9	CC 121	125	
75.0-77.4	CC 132	125	
77.5-80.7	CC 143	125	
80.8-83.1	CC 156	125	
83.2-86.0	CC 167	125	

TABLE 170

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
16.2-17.5	CC 20.9	35	
17.6-18.8	CC 22.8	35	
18.9-20.5	CC 24.6	40	
20.6-22.2	CC 26.3	45	
22.3-23.7	CC 28.8	50	
23.8-25.4	CC 31.0	50	
25.5-27.3	CC 33.3	50	
27.4-29.3	CC 36.4	60	
29.4-31.5	CC 39.6	60	
31.6-33.9	CC 42.7	70	
34.0-36.2	CC 46.6	70	
36.3-39.3	CC 50.1	80	
39.4-42.3	CC 54.5	80	
42.4-45.3	CC 59.4	90	
45.4-48.3	CC 64.3	100	
48.4-52.0	CC 68.5	100	
52.1-54.9	CC 74.6	110	
55.0-59.7	CC 81.5	110	
59.8-65.4	CC 87.7	125	
65.5-69.6	CC 94.0	125	
69.7-74.8	CC 103	125	
74.9-79.7	CC 112	125	
79.8-83.1	CC 121	125	
83.2-86.0	CC 132	125	

TABLE 172

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
15.7-17.7	AU 20	35	
17.8-19.9	AU 23	40	
20.0-22.7	AU 26	45	
22.8-25.7	AU 29	50	
25.8-29.1	AU 33	50	
29.2-30.8	AU 38	60	
30.9-34.3	AU 40	60	
34.4-38.3	AU 44	70	
38.4-42.3	AU 50	80	
42.4-47.5	AU 56	90	
47.6-53.0	AU 64	100	
		600V. Max.	250V. Max.
53.1-60.5	AU 72	100	110
60.6-64.9	AU 81	100	125
65.0-71.5	AU 88	100	125
71.6-77.3	AU 99	100	125
77.4-86.0	AU 110	100	125

TABLE 173

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
15.1-17.0	AU 20	30	
17.1-19.1	AU 23	35	
19.2-21.8	AU 26	40	
21.9-24.5	AU 29	45	
24.6-27.9	AU 33	50	
28.0-29.5	AU 38	60	
29.6-32.9	AU 40	60	
33.0-36.6	AU 44	70	
36.7-40.3	AU 50	80	
40.4-45.1	AU 56	90	
45.2-50.4	AU 64	100	
		600V. Max.	250V. Max.
50.5-57.3	AU 72	100	110
57.4-62.4	AU 81	100	125
62.5-68.3	AU 88	100	125
68.4-73.9	AU 99	100	125
74.0-80.6	AU 110	100	125
80.7-86.0	AU 123	100	125



SELECTION TABLES 174 thru 177

TABLE 174

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.33-0.36 0.37-0.40 0.41-0.45	B 0.44 B 0.51 B 0.57	0.6 0.8 0.8
0.46-0.52 0.53-0.59 0.60-0.66	B 0.63 B 0.71 B 0.81	1 1.125 1.25
0.67-0.73 0.74-0.81 0.82-0.91	B 0.92 B 1.03 B 1.16	1.4 1.6 1.8
0.92-1.02 1.03-1.14 1.15-1.29	B 1.30 B 1.45 B 1.67	2 2.25 2.5
1.30-1.42 1.43-1.64 1.65-1.80	B 1.88 B 2.10 B 2.40	2.8 3.2 3.5
1.81-2.10 2.11-2.30 2.31-2.61	B 2.65 B 3.00 B 3.30	4 4.5 5
2.62-2.99 3.00-3.37 3.38-3.94	B 3.70 B 4.15 B 4.85	5.6 6.25 7
3.95-4.24 4.25-4.54 4.55-5.29	B 5.50 B 6.25 B 6.90	8 9 10
5.30-5.73 5.74-6.35 6.36-7.08	B 7.70 B 8.20 B 9.10	10 12 12
7.09-7.83 7.84-8.47 8.48-9.83	B 10.2 B 11.5 B 12.8	15 17.5 17.5
9.84-10.5 10.6-11.4 11.5-12.8	B 14 B 15.5 B 17.5	20 20 25
12.9-13.9	B 19.5	25
		Size M-0 Size M-1 Size M-1P
14.0-16.1 16.2-18.0	B 22 B 25	25 30 30 25 35 35
Following Selections for Size M-1 & M-1P Only.		
16.2-17.6 17.7-20.6 20.7-23.1	B 25 B 28.0 B 32	— 35 35 — 35 35 — 40 45
23.2-26.0	B 36	— 40 50
Following Selections for Size M-1P Only.		
23.2-27.1 27.2-29.2 29.3-33.0 33.1-36.0	B 36 B 40 B 45 B 50	— — 50 — — 50 — — 50 — — 50

TABLE 175

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.35-0.38 0.39-0.43 0.44-0.48	B 0.44 B 0.51 B 0.57	0.6 0.8 0.8
0.49-0.56 0.57-0.63 0.64-0.71	B 0.63 B 0.71 B 0.81	1 1.25 1.4
0.72-0.78 0.79-0.88 0.89-0.99	B 0.92 B 1.03 B 1.16	1.6 1.6 2
1.00-1.15 1.16-1.23 1.24-1.43	B 1.30 B 1.45 B 1.67	2.25 2.5 2.5
1.44-1.51 1.52-1.75 1.76-1.93	B 1.88 B 2.10 B 2.40	3.2 3.2 3.5
1.94-2.25 2.26-2.47 2.48-2.81	B 2.65 B 3.00 B 3.30	4 5 5
2.82-3.20 3.21-3.63 3.64-4.19	B 3.70 B 4.15 B 4.85	6.25 7 8
4.20-4.53 4.54-4.89 4.90-5.68	B 5.50 B 6.25 B 6.90	9 10 10
5.69-6.27 6.28-6.85 6.86-7.73	B 7.70 B 8.20 B 9.10	12 12 15
7.74-8.50 8.51-9.29 9.30-10.4	B 10.2 B 11.5 B 12.8	15 17.5 20
10.5-11.3 11.4-12.3 12.4-13.9	B 14 B 15.5 B 17.5	20 25 25
		Size M-0 Size M-1 Size M-1P
14.0-15.0 15.1-18.0	B 19.5 B 22	25 30 30 25 30 30
Following Selections for Size M-1 & M-1P Only.		
15.1-17.4 17.5-19.2 19.3-22.0	B 22 B 25 B 28.0	— 30 30 — 35 35 — 40 40
22.1-24.6 24.7-26.0	B 32 B 36	— 40 45 — 40 50
Following Selections for Size M-1P Only.		
24.7-29.1 29.2-31.7 31.8-36.0	B 36 B 40 B 45	— — 50 — — 50 — — 50

TABLE 176

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
15.1-16.2 16.3-17.5 17.6-19.1	CC 20.9 CC 22.8 CC 24.6	30 35 35
19.2-20.7 20.8-22.2 22.3-24.0	CC 26.3 CC 28.8 CC 31.0	40 45 50
24.1-25.7 25.8-27.8 27.9-30.1	CC 33.3 CC 36.4 CC 39.6	50 50 60
30.2-32.5 32.6-35.1 35.2-38.0	CC 42.7 CC 46.6 CC 50.1	60 70 70
38.1-41.1 41.2-44.0 44.1-47.2	CC 54.5 CC 59.4 CC 64.3	80 90 90
47.3-51.1	CC 68.5	100
		600V. Max. 250V. Max.
51.2-55.8 55.9-59.5	CC 74.6 CC 81.5	100 110 100 125
59.6-64.5 64.6-69.5 69.6-75.0	CC 87.7 CC 94.0 CC 103	100 125 100 125 100 125
75.1-78.1 78.2-82.3 82.4-86.0	CC 112 CC 121 CC 132	100 125 100 125 100 125

TABLE 177

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
16.5-17.4 17.5-18.9 19.0-20.5	CC 20.9 CC 22.8 CC 24.6	35 35 40
20.6-22.0 22.1-23.8 23.9-25.6	CC 26.3 CC 28.8 CC 31.0	45 45 50
25.7-27.7 27.8-29.7 29.8-32.2	CC 33.3 CC 36.4 CC 39.6	50 60 60
32.3-34.7 34.8-37.3 37.4-40.5	CC 42.7 CC 46.6 CC 50.1	70 70 80
40.6-43.7 43.8-47.0 47.1-50.3	CC 54.5 CC 59.4 CC 64.3	90 90 100
		600V. Max. 250V. Max.
50.4-54.5 54.6-58.3 58.4-63.1	CC 68.5 CC 74.6 CC 81.5	100 110 100 110 100 125
63.2-68.4 68.5-73.8 73.9-78.9	CC 87.7 CC 94.0 CC 103	100 125 100 125 100 125
79.0-86.0	CC 112	100 125

SELECTION TABLES 179 thru 183

TABLE 179

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
4.83-5.33	AR 8.5	10
5.34-5.84	AR 9.3	12
5.85-6.43	AR 10.2	12
6.44-7.03	AR 11.2	12
7.04-7.30	AR 12.4	15
7.31-8.29	AR 13.6	15
8.30-9.49	AR 15.4	17.5
9.50-10.7	AR 17.6	20
10.8-12.3	AR 20.5	20
12.4-14.0	AR 23	25
14.1-16.0	AR 27	30
16.1-18.4	AR 30	35
18.5-21.0	AR 35	40
21.1-23.0	AR 40	45
23.1-25.5	AR 44	50
25.6-26.7	AR 47	50
26.8-28.3	AR 51	60
28.4-30.3	AR 55	60
30.4-32.5	AR 60	60
32.6-34.5	AR 66	60
34.6-37.6	AR 72	60
37.7-39.7	AR 79	60
39.8-41.4	AR 86	60
41.5-45.0	AR 94	60

TABLE 181

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
5.09-5.59	AR 8.5	10
5.60-6.11	AR 9.3	12
6.12-6.72	AR 10.2	12
6.73-7.37	AR 11.2	15
7.38-7.67	AR 12.4	15
7.68-8.68	AR 13.6	15
8.69-9.94	AR 15.4	17.5
9.95-11.1	AR 17.6	20
11.2-12.9	AR 20.5	25
13.0-14.7	AR 23	25
14.8-16.9	AR 27	30
17.0-19.2	AR 30	35
19.3-21.9	AR 35	40
22.0-24.4	AR 40	45
24.5-26.3	AR 44	50
26.4-28.0	AR 47	50
28.1-30.3	AR 51	60
30.4-32.2	AR 55	60
32.3-34.4	AR 60	60
34.5-36.6	AR 66	60
36.7-39.5	AR 72	60
39.6-45.0	AR 79	60

TABLE 182

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.28-0.30	AR 45	0.6
0.31-0.33	AR 49	0.6
0.34-0.36	AR 54	0.6
0.37-0.39	AR 59	0.8
0.40-0.42	AR 65	0.8
0.43-0.46	AR 71	0.8
0.47-0.50	AR 78	1
0.51-0.52	AR 86	1.125
0.53-0.56	AR 95	1.125
0.57-0.60	AR 1.05	1.25
0.61-0.66	AR 1.15	1.25
0.67-0.73	AR 1.26	1.4
0.74-0.81	AR 1.39	1.6
0.82-0.90	AR 1.53	1.8
0.91-1.05	AR 1.68	2
1.06-1.15	AR 1.85	2.25
1.16-1.25	AR 2.04	2.5
1.26-1.35	AR 2.24	2.8
1.36-1.47	AR 2.46	2.8
1.48-1.58	AR 2.71	3.2
1.59-1.74	AR 2.98	3.5
1.75-1.94	AR 3.28	3.5
1.95-2.20	AR 3.62	4
2.21-2.47	AR 3.98	4.5
2.48-2.76	AR 4.37	5
2.77-3.07	AR 4.80	5.6
3.08-3.45	AR 5.3	6.25
3.46-3.81	AR 5.8	7
3.82-4.20	AR 6.4	8
4.21-4.65	AR 7.0	9
4.66-5.29	AR 7.7	10
5.30-5.84	AR 8.5	10
5.85-6.27	AR 9.3	12
6.28-6.97	AR 10.2	12
6.98-7.59	AR 11.2	15
7.60-7.89	AR 12.4	15
7.90-8.95	AR 13.6	17.5
8.96-10.3	AR 15.4	20
10.4-11.7	AR 17.6	20
11.8-12.0	AR 20.5	20
Following Selections for Size 1 Only		
11.8-13.3	AR 20.5	25
13.4-15.2	AR 23	30
15.3-17.2	AR 27	30
17.3-19.7	AR 30	30
19.8-22.4	AR 35	30
22.5-26.0	AR 40	30

TABLE 183

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.150-0.165	A .22	0.3
0.166-0.182	A .23	0.3
0.183-0.201	A .26	0.4
0.202-0.222	A .27	0.4
0.223-0.246	A .31	0.5
0.247-0.272	A .34	0.5
0.273-0.307	A .37	0.6
0.308-0.333	A .39	0.6
0.334-0.379	A .47	0.6
0.38-0.40	A .49	0.8
0.41-0.44	A .54	0.8
0.45-0.49	A .59	1
0.50-0.55	A .65	1.125
0.56-0.60	A .71	1.25
0.61-0.65	A .78	1.25
0.66-0.72	A .86	1.4
0.73-0.79	A .95	1.6
0.80-0.88	A 1.02	1.8
0.89-0.98	A 1.16	2
0.99-1.07	A 1.25	2
1.08-1.17	A 1.39	2.25
1.18-1.25	A 1.54	2.5
1.26-1.33	A 1.63	2.8
1.34-1.44	A 1.75	2.8
1.45-1.53	A 1.86	3.2
1.54-1.65	A 1.99	3.2
1.66-1.79	A 2.15	3.5
1.80-1.99	A 2.31	4
2.00-2.18	A 2.57	4.5
2.19-2.45	A 2.81	4.5
2.46-2.65	A 3.61	5
2.66-2.90	A 3.95	5.6
2.91-3.19	A 4.32	6.25
3.20-3.56	A 4.79	7
3.57-3.83	A 5.30	8
3.84-4.08	A 5.78	8
4.09-4.64	A 6.20	9
4.65-5.00	A 6.99	10
5.01-5.36	A 7.65	10
5.37-5.87	A 8.38	10
5.88-6.43	A 9.25	10
6.44-6.79	A 9.85	10
6.80-7.00	A 11.0	10



SELECTION TABLES 184 thru 186

TABLE 184

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)		Fuse Rating Must Not Exceed 4.0 Times Motor Full-Load Current
		Time Delay	Non-Time Delay	
0.157-0.173	A 22	0.3		
0.174-0.192	A 23	0.3		
0.193-0.212	A 26	0.4		
0.213-0.235	A 27	0.4		
0.236-0.261	A 31	0.5		
0.262-0.289	A 34	0.5		
0.290-0.321	A 37	0.6		
0.322-0.355	A 39	0.6		
0.356-0.399	A 47	0.8		
0.40-0.41	A 49	0.8		
0.42-0.46	A 54	0.8		
0.47-0.51	A 59	1		
0.52-0.57	A 65	1.125		
0.58-0.62	A 71	1.25		
0.63-0.67	A 78	1.4		
0.68-0.75	A 86	1.4		
0.76-0.80	A 95	1.6		
0.81-0.89	A 1.02	1.8		
0.90-1.02	A 1.16	2		
1.03-1.09	A 1.25	2.25		
1.10-1.21	A 1.39	2.25		
1.22-1.29	A 1.54	2.5		
1.30-1.37	A 1.63	2.8		
1.38-1.48	A 1.75	2.8		
1.49-1.58	A 1.86	3.2		
1.59-1.72	A 1.99	3.5		
1.73-1.85	A 2.15	3.5		
1.86-2.05	A 2.31	4		
2.06-2.29	A 2.57	4		
2.30-2.62	A 2.81	5		
2.63-2.84	A 3.61	5.6		
2.85-3.10	A 3.95	6.25		
3.11-3.46	A 4.32	6.25		
3.47-3.85	A 4.79	7		
3.86-4.16	A 5.30	8		
4.17-4.46	A 5.78	9		
4.47-5.08	A 6.20	10	15	
5.09-5.35	A 6.99	10	15	
5.36-5.82	A 7.65	600V. Max.	250V. Max.	20
		10	12	20
5.83-6.34	A 8.38	10	12	25
6.35-6.95	A 9.25	10	12	25
6.96-7.00	A 9.85	10	12	25

TABLE 185

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	Size		
			M-0	M-1	M-1P
2.38-2.62	FB 3.33	5			
2.63-2.94	FB 3.71	5.6			
2.95-3.31	FB 4.1	6.25			
3.32-3.43	FB 4.5	7			
3.44-3.81	FB 4.75	7			
3.82-4.32	FB 5.3	8			
4.33-4.75	FB 6.1	9			
4.76-5.38	FB 6.75	10			
5.39-5.75	FB 7.45	12			
5.76-5.97	FB 7.8	12			
5.98-6.30	FB 8.21	12			
6.31-6.55	FB 8.6	12			
6.56-6.89	FB 9.0	12			
6.90-7.14	FB 9.5	15			
7.15-7.36	FB 10	15			
7.37-8.30	FB 10.6	15			
8.31-8.59	FB 11.2	17.5			
8.60-9.01	FB 12.1	17.5			
9.02-9.68	FB 13.1	20			
9.69-9.99	FB 13.9	20			
10.0-10.9	FB 14.8	20			
11.0-11.3	FB 15.6	20			
11.4-12.4	FB 16.4	25			
12.5-12.9	FB 17.6	25			
13.0-14.0	FB 18.4	25			
14.1-14.5	FB 19.4	25	30	30	
14.6-15.7	FB 21.1	25	30	30	
15.8-16.6	FB 22.6	25	35	35	
16.7-18.0	FB 23.6	25	35	35	
Following Selections For Size M-1 & M-1P Only.					
16.7-17.6	FB 23.6	—	35	35	
17.7-18.3	FB 24.8	—	35	35	
18.4-19.4	FB 26.7	—	40	40	
19.5-20.5	FB 28.3	—	40	40	
20.6-21.7	FB 29.6	—	40	45	
21.8-22.8	FB 30.5	—	40	45	
22.9-24.3	FB 32.6	—	40	50	
24.4-24.7	FB 34.1	—	40	50	
24.8-25.4	FB 35	—	40	50	
25.5-26.0	FB 36.6	—	40	50	
Following Selections for Size M-1P Only.					
26.1-27.7	FB 38.3	—	—	50	
27.8-28.9	FB 40.2	—	—	50	
29.0-30.6	FB 42	—	—	50	
30.7-32.5	FB 44	—	—	50	
32.6-36.0	FB 46	—	—	50	

TABLE 186

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	Size		
			M-0	M-1	M-1P
2.42-2.67	FB 3.33	5			
2.68-3.00	FB 3.71	5.6			
3.01-3.36	FB 4.1	6.25			
3.37-3.53	FB 4.5	7			
3.54-3.91	FB 4.75	7			
3.92-4.41	FB 5.3	8			
4.42-4.83	FB 6.1	9			
4.84-5.45	FB 6.75	10			
5.46-5.89	FB 7.45	12			
5.90-6.04	FB 7.8	12			
6.05-6.55	FB 8.21	12			
6.56-6.72	FB 8.6	12			
6.73-7.00	FB 9.0	15			
7.01-7.39	FB 9.5	15			
7.40-7.54	FB 10	15			
7.55-8.41	FB 10.6	15			
8.42-8.91	FB 11.2	17.5			
8.92-9.16	FB 12.1	20			
9.17-10.0	FB 13.1	20			
10.1-10.3	FB 13.9	20			
10.4-11.4	FB 14.8	20			
11.5-11.8	FB 15.6	25			
11.9-12.9	FB 16.4	25			
13.0-13.4	FB 17.6	25			
13.5-14.2	FB 18.4	25	30	30	
14.3-15.1	FB 19.4	25	30	30	
15.2-18.0	FB 21.1	25	30	30	
Following Selections For Size M-1 & M-1P Only.					
15.2-17.1	FB 21.1	—	30	30	
17.2-18.0	FB 22.6	—	35	35	
18.1-18.9	FB 23.6	—	40	40	
19.0-19.7	FB 24.8	—	40	40	
19.8-20.9	FB 26.7	—	40	40	
21.0-21.9	FB 28.3	—	40	45	
22.0-23.1	FB 29.6	—	40	45	
23.2-24.3	FB 30.5	—	40	50	
24.4-25.5	FB 32.6	—	40	50	
25.6-26.0	FB 34.1	—	40	50	
Following Selections for Size M-1P Only.					
26.1-26.8	FB 35	—	—	50	
26.9-27.3	FB 36.6	—	—	50	
27.4-28.7	FB 38.3	—	—	50	
28.8-30.2	FB 40.2	—	—	50	
30.3-31.9	FB 42	—	—	50	
32.0-36.0	FB 44	—	—	50	

SELECTION TABLES 189 thru 194

TABLE 189

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.30-0.31	AR .45	0.6
0.32-0.34	AR .49	0.6
0.35-0.37	AR .54	0.6
0.38-0.41	AR .59	0.8
0.42-0.45	AR .65	0.8
0.46-0.49	AR .71	1
0.50-0.54	AR .78	1.125
0.55-0.56	AR .86	1.125
0.57-0.62	AR .95	1.25
0.63-0.68	AR 1.05	1.4
0.69-0.75	AR 1.15	1.4
0.76-0.82	AR 1.26	1.6
0.83-0.91	AR 1.39	1.8
0.92-1.00	AR 1.53	2
1.01-1.18	AR 1.68	2.25
1.19-1.30	AR 1.85	2.5
1.31-1.41	AR 2.04	2.8
1.42-1.53	AR 2.24	2.8
1.54-1.69	AR 2.46	3.2
1.70-1.79	AR 2.71	3.5
1.80-2.02	AR 2.98	4
2.03-2.19	AR 3.28	4.5
2.20-2.43	AR 3.62	4.5
2.44-2.81	AR 3.98	5
2.82-3.12	AR 4.37	6.25
3.13-3.47	AR 4.80	7
3.48-3.89	AR 5.3	7
3.90-4.30	AR 5.8	8
4.31-4.69	AR 6.4	9
4.70-5.19	AR 7.0	10
5.20-5.93	AR 7.7	10
5.94-6.45	AR 8.5	12
6.46-7.08	AR 9.3	12
7.09-7.71	AR 10.2	15
7.72-8.39	AR 11.2	15
8.40-8.64	AR 12.4	17.5
8.65-9.74	AR 13.6	17.5
9.75-11.0	AR 15.4	20
11.1-12.0	AR 17.6	20
Following Selections for Size 1 Only		
11.1-12.4	AR 17.6	20
12.5-13.9	AR 20.5	25
14.0-15.9	AR 23	30
		600V. Max. 250V. Max.
16.0-17.7	AR 27	30 35
17.8-20.3	AR 30	30 40
20.4-22.8	AR 35	30 40
22.9-26.0	AR 40	30 40

TABLE 191

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.31-0.33	AR .45	0.6
0.34-0.36	AR .49	0.6
0.37-0.39	AR .54	0.8
0.40-0.43	AR .59	0.8
0.44-0.47	AR .65	0.8
0.48-0.51	AR .71	1
0.52-0.56	AR .78	1.125
0.57-0.58	AR .86	1.25
0.59-0.64	AR .95	1.25
0.65-0.70	AR 1.05	1.4
0.71-0.77	AR 1.15	1.4
0.78-0.85	AR 1.26	1.6
0.86-0.94	AR 1.39	1.8
0.95-1.03	AR 1.53	2
1.04-1.22	AR 1.68	2.25
1.23-1.34	AR 1.85	2.5
1.35-1.46	AR 2.04	2.8
1.47-1.58	AR 2.24	3.2
1.59-1.76	AR 2.46	3.5
1.77-1.85	AR 2.71	3.5
1.86-2.08	AR 2.98	4
2.09-2.27	AR 3.28	4.5
2.28-2.51	AR 3.62	5
2.52-2.90	AR 3.98	5.6
2.91-3.23	AR 4.37	6.25
3.24-3.58	AR 4.80	7
3.59-4.02	AR 5.3	8
4.03-4.43	AR 5.8	9
4.44-4.86	AR 6.4	9
4.87-5.37	AR 7.0	10
5.38-6.12	AR 7.7	12
6.13-6.65	AR 8.5	12
6.66-7.31	AR 9.3	12
7.32-7.96	AR 10.2	15
7.97-8.69	AR 11.2	17.5
8.70-8.99	AR 12.4	17.5
9.00-10.1	AR 13.6	20
10.2-11.5	AR 15.4	20
		600V. Max. 250V. Max.
11.6-12.0	AR 17.6	20 25
Following Selections for Size 1 Only		
11.6-13.0	AR 17.6	25 25
13.1-14.6	AR 20.5	25 25
14.7-16.5	AR 23	30 30
16.6-18.5	AR 27	30 35
18.6-21.0	AR 30	30 40
21.1-23.6	AR 35	30 40
23.7-26.0	AR 40	30 40

TABLE 192

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
4.90-5.68	AR 8.5	10
5.69-6.19	AR 9.3	12
6.20-6.71	AR 10.2	12
6.72-7.14	AR 11.2	15
7.15-7.49	AR 12.4	15
7.50-8.48	AR 13.6	15
8.49-9.66	AR 15.4	17.5
9.67-10.8	AR 17.6	20
10.9-12.4	AR 20.5	20
12.5-13.9	AR 23	25
14.0-15.7	AR 27	30
15.8-18.1	AR 30	35
18.2-20.3	AR 35	40
20.4-23.0	AR 40	45
23.1-25.2	AR 44	50
25.3-26.6	AR 47	50
26.7-28.2	AR 51	60
28.3-30.2	AR 55	60
30.3-32.3	AR 60	60
32.4-34.3	AR 66	60
34.4-36.7	AR 72	60
36.8-39.3	AR 79	60
39.4-45.0	AR 86	60

TABLE 194

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	Max. Ckt. Breaker Rating (Cont. Amp.)
5.15-5.97	AR 8.5	10	15
5.98-6.50	AR 9.3	12	15
6.51-7.04	AR 10.2	12	15
7.05-7.59	AR 11.2	15	15
7.60-7.93	AR 12.4	15	15
7.94-9.04	AR 13.6	17.5	15
9.05-10.2	AR 15.4	20	30
10.3-11.5	AR 17.6	20	30
11.6-13.2	AR 20.5	25	30
13.3-14.9	AR 23	25	30
15.0-16.9	AR 27	30	40
17.0-19.3	AR 30	35	40
19.4-21.7	AR 35	40	70
21.8-25.0	AR 40	45	70
25.1-27.0	AR 44	50	70
27.1-29.1	AR 47	60	70
29.2-30.8	AR 51	60	70
30.9-32.9	AR 55	60	70
33.0-35.0	AR 60	60	70
35.1-37.1	AR 66	60	70
37.2-39.1	AR 72	60	70
39.2-41.5	AR 79	60	70
41.6-45.0	AR 86	60	70



SELECTION TABLES 195 thru 196

TABLE 195

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)		
		Single Motor Installation (NEC 430-52)	Group Motor Installation (NEC 430-53)	
			Class K9 or Unclassified Fuse	Class K5 Fuse
0.33-0.36	B 0.44	0.6	15	30
0.37-0.40	B 0.51	0.8	15	30
0.41-0.45	B 0.57	0.8	15	30
0.46-0.52	B 0.63	1	15	30
0.53-0.59	B 0.71	1.125	15	30
0.60-0.66	B 0.81	1.25	15	30
0.67-0.73	B 0.92	1.4	15	30
0.74-0.81	B 1.03	1.6	15	30
0.82-0.91	B 1.16	1.8	20	30
0.92-1.02	B 1.30	2	20	30
1.03-1.14	B 1.45	2.25	20	30
1.15-1.29	B 1.67	2.5	20	30
1.30-1.42	B 1.88	2.8	20	30
1.43-1.64	B 2.10	3.2	25	30
1.65-1.80	B 2.40	3.5	25	30
1.81-2.10	B 2.65	4	25	30
2.11-2.30	B 3.00	4.5	25	30
2.31-2.61	B 3.30	5	30	30
2.62-2.99	B 3.70	5.6	30	30
3.00-3.37	B 4.15	6.25	30	30
3.38-3.94	B 4.85	7	30	30
3.95-4.24	B 5.50	8	30	30
4.25-4.54	B 6.25	9	30	30
4.55-5.29	B 6.90	10	30	30
5.30-5.73	B 7.70	10	30	30
5.74-6.35	B 8.20	12	30	30
6.36-7.08	B 9.10	12	30	30
7.09-7.83	B 10.2	15	30	30
7.84-8.47	B 11.5	17.5	30	30
8.48-9.83	B 12.8	17.5	30	30
9.84-10.5	B 14	20	30	30
10.6-11.4	B 15.5	20	GROUP FUSING RESTRICTIONS Maximum thermal Unit Size: B12.8 Maximum branch-circuit available current: 5,000 amp. symmetrical	
11.5-12.8	B 17.5	25		
12.9-13.9	B 19.5	25		
14.0-16.1	B 22	25	GROUP FUSING RESTRICTIONS Maximum thermal Unit Size: B14 Maximum branch-circuit available current: 5,000 amp. symmetrical	
16.2-18.0	B 25	25		

TABLE 196

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)		
		Single Motor Installation (NEC 430-52)	Group Motor Installation (NEC 430-53)	
			Class K9 or Unclassified Fuse	Class K5 Fuse
0.29-0.32	B 0.44	0.6	15	30
0.33-0.36	B 0.51	0.6	15	30
0.37-0.39	B 0.57	0.8	15	30
0.40-0.47	B 0.63	0.8	15	30
0.48-0.56	B 0.71	1	15	30
0.57-0.63	B 0.81	1.25	15	30
0.64-0.69	B 0.92	1.4	15	30
0.70-0.77	B 1.03	1.4	15	30
0.78-0.86	B 1.16	1.6	20	30
0.87-0.96	B 1.30	1.8	20	30
0.97-1.11	B 1.45	2	20	30
1.12-1.23	B 1.67	2.5	20	30
1.24-1.37	B 1.88	2.5	20	30
1.38-1.55	B 2.10	2.8	25	30
1.56-1.75	B 2.40	3.5	25	30
1.76-1.92	B 2.65	3.5	25	30
1.93-2.16	B 3.00	4	25	30
2.17-2.50	B 3.30	4.5	30	30
2.51-2.81	B 3.70	5.6	30	30
2.82-3.16	B 4.15	6.25	30	30
3.17-3.40	B 4.85	7	30	30
3.41-3.76	B 5.50	7	30	30
3.77-4.00	B 6.25	8	30	30
4.01-4.68	B 6.90	9	30	30
4.69-5.18	B 7.70	10	30	30
5.19-5.51	B 8.20	10	30	30
5.52-6.19	B 9.10	12	30	30
6.20-7.12	B 10.2	12	30	30
7.13-8.15	B 11.5	15	30	30
8.16-8.60	B 12.8	17.5	30	30
8.61-9.21	B 14	17.5	30	30
9.22-10.1	B 15.5	20	GROUP FUSING RESTRICTIONS Maximum thermal Unit Size: B14 Maximum branch-circuit available current: 5,000 amp. symmetrical	
10.2-11.2	B 17.5	20		
		20		
11.3-12.0	B 19.5	20	250V. Max.	25

SELECTION TABLES 197 thru 200

TABLE 197

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
3.98-4.53	AR 8.5	8
4.54-5.03	AR 9.3	10
5.04-5.46	AR 10.2	10
5.47-6.01	AR 11.2	12
6.02-6.31	AR 12.4	12
6.32-7.19	AR 13.6	12
7.20-8.29	AR 15.4	15
8.30-9.49	AR 17.6	17.5
9.50-11.0	AR 20.5	20
11.1-12.6	AR 23	20
12.7-14.3	AR 27	25
14.4-16.5	AR 30	30
16.6-19.2	AR 35	35
19.3-21.9	AR 40	40
22.0-23.8	AR 44	45
23.9-25.5	AR 47	50
25.6-27.7	AR 51	50
27.8-30.1	AR 55	60
30.2-32.5	AR 60	60
32.6-34.8	AR 66	60
34.9-38.5	AR 72	60
38.6-41.5	AR 79	60
41.6-45.0	AR 86	60

TABLE 198

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
105-116	AR 3.28	225
117-132	AR 3.62	250
133-148	AR 3.98	250
149-165	AR 4.37	300
166-184	AR 4.80	350
185-207	AR 5.3	400
208-229	AR 5.8	400
230-266	AR 6.4	400

TABLE 199

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J Fuses Only	All Fuses Except Class J
0.50-0.54	B 0.44	1	Fuse Rating Must be 30 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
0.55-0.63	B 0.51	1	
0.64-0.67	B 0.57	1	
0.68-0.80	B 0.63	1	
0.81-0.96	B 0.71	1	
0.97-1.06	B 0.81	3	
1.07-1.15	B 0.92	3	
1.16-1.31	B 1.03	3	
1.32-1.44	B 1.16	3	
1.45-1.62	B 1.30	3	
1.63-1.84	B 1.45	3	Fuse Rating Must be 30 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
1.85-2.05	B 1.67	3	
2.06-2.28	B 1.88	3	
2.29-2.55	B 2.10	3	
2.56-2.90	B 2.40	6	
2.91-3.18	B 2.65	6	
3.19-3.54	B 3.00	6	
3.55-4.13	B 3.30	6	
4.14-4.51	B 3.70	6	
4.52-5.43	B 4.15	10	
5.44-6.23	B 4.85	10	Not Suitable Above 26.0 Amp. Motor F.L.C.
6.24-6.83	B 5.50	10	
6.84-7.26	B 6.25	15	
7.27-8.18	B 6.90	15	
8.19-9.03	B 7.70	15	
9.04-9.55	B 8.20	20	
9.56-10.6	B 9.10	20	
10.7-12.2	B 10.2	20	
12.3-13.9	B 11.5	25	
14.0-15.0	B 12.8	30	
15.1-16.1	B 14	30	Not Suitable Above 26.0 Amp. Motor F.L.C.
16.2-17.7	B 15.5	35	
17.8-19.6	B 17.5	40	
19.7-21.0	B 19.5	45	
21.1-23.8	B 22	45	
23.9-26.4	B 25	50	
26.5-29.9	B 28.0	60	
30.0-32.8	B 32	60	
32.9-37.1	B 36	60	
37.2-41.1	B 40	60	
41.2-45.0	B 45	60	

TABLE 200

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J Fuses Only	All Fuses Except Class J
0.47-0.53	AR .45	1	Fuse Rating Must be 30 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
0.54-0.58	AR .49	1	
0.59-0.63	AR .54	1	
0.64-0.68	AR .59	1	
0.69-0.73	AR .65	1	
0.74-0.80	AR .71	1	
0.81-0.87	AR .78	3	
0.88-0.91	AR .86	3	
0.92-0.98	AR .95	3	
0.99-1.05	AR 1.05	3		Fuse Rating Must be 30 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
1.06-1.15	AR 1.15	3	
1.16-1.27	AR 1.26	3	
1.28-1.41	AR 1.39	3	
1.42-1.57	AR 1.53	3	
1.58-1.83	AR 1.68	3	
1.84-2.00	AR 1.85	3	
2.01-2.17	AR 2.04	3	
2.18-2.35	AR 2.24	3	
2.36-2.55	AR 2.46	3	Fuse Rating Must be 30 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
2.56-2.74	AR 2.71	6	
2.75-3.02	AR 2.98	6	
3.03-3.37	AR 3.28	6	
3.38-3.81	AR 3.62	6	
3.82-4.28	AR 3.98	6	
4.29-4.78	AR 4.37	6	
4.79-5.32	AR 4.80	10	
5.33-5.98	AR 5.3	10	
5.99-6.60	AR 5.8	10		Fuse Rating Must be 30 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
6.61-7.28	AR 6.4	15	
7.29-8.05	AR 7.0	15	
8.06-9.16	AR 7.7	15	
9.17-10.0	AR 8.5	20	
10.1-10.8	AR 9.3	20	
10.9-12.0	AR 10.2	25	
12.1-13.1	AR 11.2	25	
13.2-13.6	AR 12.4	30	
13.7-15.4	AR 13.6	30	Not Suitable Above 26.0 Amp. Motor F.L.C.
15.5-17.9	AR 15.4	35	
18.0-20.3	AR 17.6	40	
20.4-23.1	AR 20.5	45	
23.2-26.4	AR 23	50	
26.5-29.9	AR 27	60	
30.0-34.2	AR 30	60	
34.3-38.9	AR 35	60	
39.0-45.0	AR 40	60	

SELECTION TABLES 201 thru 205

TABLE 201

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J Fuses Only	All Fuses Except Class J
0.54-0.58	AR .45	1	
0.59-0.63	AR .49	1	
0.64-0.68	AR .54	1	
0.69-0.75	AR .59	1	
0.76-0.82	AR .65	1	
0.83-0.89	AR .71	3	
0.90-0.98	AR .78	3	
0.99-1.01	AR .86	3	
1.02-1.12	AR .95	3	
1.13-1.22	AR 1.05	3	Fuse Rating Must be 30 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
1.23-1.34	AR 1.15	3	
1.35-1.48	AR 1.26	3	
1.49-1.64	AR 1.39	3	Fuse Rating Must be 30 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
1.65-1.79	AR 1.53	3	
1.80-2.12	AR 1.68	3	
2.13-2.33	AR 1.85	3	Fuse Rating Must be 30 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
2.34-2.53	AR 2.04	3	
2.54-2.75	AR 2.24	6	
2.76-3.05	AR 2.46	6	Fuse Rating Must be 30 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
3.06-3.21	AR 2.71	6	
3.22-3.61	AR 2.98	6	
3.62-3.93	AR 3.28	6	Fuse Rating Must be 30 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
3.94-4.35	AR 3.62	6	
4.36-4.85	AR 3.98	10	
4.86-5.60	AR 4.37	10	Fuse Rating Must be 30 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
5.61-6.20	AR 4.80	10	
6.21-6.96	AR 5.3	10	
6.97-7.66	AR 5.8	15	Fuse Rating Must be 30 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
7.67-8.41	AR 6.4	15	
8.42-9.29	AR 7.0	15	
9.30-10.5	AR 7.7	20	Fuse Rating Must be 30 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
10.6-11.4	AR 8.5	20	
11.5-12.6	AR 9.3	25	
12.7-13.7	AR 10.2	25	Fuse Rating Must be 30 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
13.8-15.0	AR 11.2	30	
15.1-15.5	AR 12.4	30	
15.6-17.6	AR 13.6	35	Fuse Rating Must be 30 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
17.7-20.0	AR 15.4	40	
20.1-22.5	AR 17.6	45	
22.6-25.3	AR 20.5	50	Fuse Rating Must be 30 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
25.4-28.7	AR 23	50	
28.8-32.1	AR 27	60	
32.2-36.4	AR 30	60	Not Suitable Above 26.0 Amp. Motor F.L.C.
36.5-40.9	AR 35	60	
41.0-45.0	AR 40	60	

TABLE 202

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J Fuses Only	All Fuses Except Class J
5.68-6.09	B 4.85	10	
6.10-6.74	B 5.50	10	
6.75-7.18	B 6.25	15	
7.19-8.20	B 6.90	15	
8.21-9.05	B 7.70	15	
9.06-9.59	B 8.20	20	
9.60-10.7	B 9.10	20	
10.8-12.3	B 10.2	20	
12.4-14.1	B 11.5	25	
14.2-15.3	B 12.8	30	Fuse Rating Must be 60 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
15.4-16.5	B 14	35	
16.6-18.4	B 15.5	35	
18.5-20.5	B 17.5	40	Fuse Rating Must be 60 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
20.6-22.1	B 19.5	45	
22.2-25.0	B 22	50	
25.1-28.0	B 25	50	Fuse Rating Must be 60 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
28.1-31.6	B 28.0	60	
31.7-35.1	B 32	70	
35.2-39.6	B 36	80	Fuse Rating Must be 60 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
39.7-44.4	B 40	90	
44.5-50.0	B 45	100	
50.1-53.1	B 50	100	Not Suitable Above 52.1 Amp. Motor F.L.C.
53.2-56.2	B 56	100	
56.3-60.0	B 62	100	
60.1-66.9	B 70	100	Not Suitable Above 52.1 Amp. Motor F.L.C.
67.0-77.8	B 79	100	

TABLE 204

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J Fuses Only	All Fuses Except Class J
8.92-10.3	AR 8.5	20	
10.4-11.2	AR 9.3	20	
11.3-12.1	AR 10.2	25	
12.2-13.1	AR 11.2	25	Fuse Rating Must Be 60 Amp. Or Less And Must Not Exceed 1.3 Times Motor Full-Load Current
13.2-13.7	AR 12.4	30	
13.8-15.6	AR 13.6	30	
15.7-17.7	AR 15.4	35	Fuse Rating Must Be 60 Amp. Or Less And Must Not Exceed 1.3 Times Motor Full-Load Current
17.8-20.0	AR 17.6	40	
20.1-22.9	AR 20.5	45	
23.0-25.9	AR 23	50	Fuse Rating Must Be 60 Amp. Or Less And Must Not Exceed 1.3 Times Motor Full-Load Current
26.0-29.3	AR 27	60	
29.4-33.5	AR 30	60	
33.6-37.7	AR 35	70	Fuse Rating Must Be 60 Amp. Or Less And Must Not Exceed 1.3 Times Motor Full-Load Current
37.8-43.4	AR 40	80	
43.5-46.3	AR 44	100	
46.4-48.7	AR 47	100	Not Suitable Above 52.1 Amp. Motor F.L.C.
48.8-51.5	AR 51	100	
51.6-55.2	AR 55	100	
55.3-58.8	AR 60	100	Not Suitable Above 52.1 Amp. Motor F.L.C.
58.9-62.3	AR 66	100	
62.4-66.9	AR 72	100	
67.0-71.3	AR 79	100	Not Suitable Above 52.1 Amp. Motor F.L.C.
71.4-77.9	AR 86	100	

TABLE 203

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J Fuses Only	All Fuses Except Class J
7.35-8.00	AR 8.5	15	
8.01-8.74	AR 9.3	15	
8.75-9.59	AR 10.2	20	
9.60-10.5	AR 11.2	20	Fuse Rating Must be 60 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
10.6-11.1	AR 12.4	20	
11.2-12.9	AR 13.6	25	
13.0-14.7	AR 15.4	30	Fuse Rating Must be 60 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
14.8-16.8	AR 17.6	30	
16.9-19.3	AR 20.5	35	
19.4-22.1	AR 23	40	Fuse Rating Must be 60 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
22.2-25.0	AR 27	50	
25.1-28.5	AR 30	50	
28.6-32.8	AR 35	60	Fuse Rating Must be 60 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
32.9-37.7	AR 40	70	
37.8-40.4	AR 44	80	
40.5-43.2	AR 47	90	Fuse Rating Must be 60 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
43.3-46.6	AR 51	100	
46.7-50.4	AR 55	100	
50.5-54.3	AR 60	100	Not Suitable Above 52.1 Amp. Motor F.L.C.
54.4-58.0	AR 66	100	
58.1-63.9	AR 72	100	
64.0-67.7	AR 79	100	Not Suitable Above 52.1 Amp. Motor F.L.C.
67.8-70.9	AR 86	100	
71.0-77.8	AR 94	100	

TABLE 205

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J Fuses Only	All Fuses Except Class J
24.8-26.7	CC 20.9	50	Fuse Rating Must be 100 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
26.8-28.5	CC 22.8	60	
28.6-32.1	CC 24.6	60	
32.2-34.0	CC 26.3	70	Fuse Rating Must be 100 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
34.1-36.6	CC 28.8	70	
36.7-39.4	CC 31.0	80	
39.5-42.3	CC 33.3	90	Fuse Rating Must be 100 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
42.4-45.3	CC 36.4	90	
45.4-48.7	CC 39.6	100	
48.8-52.0	CC 42.7	110	Fuse Rating Must be 100 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
52.1-55.7	CC 46.6	110	
55.8-60.2	CC 50.1	125	
60.3-64.7	CC 54.5	125	Fuse Rating Must be 100 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
64.8-69.5	CC 59.4	125	
69.6-73.9	CC 64.3	150	
74.0-79.4	CC 68.5	150	Fuse Rating Must be 100 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
79.5-83.7	CC 74.6	175	
83.8-91.2	CC 81.5	175	
91.3-98.5	CC 87.7	200	Not Suitable Above 86.9 Amp. Motor F.L.C.
98.6-105	CC 94.0	200	
106-112	CC 103	200	
113-116	CC 112	200	Not Suitable Above 86.9 Amp. Motor F.L.C.
117-122	CC 121	200	
123-127	CC 132	200	
128-132	CC 143	200	Not Suitable Above 86.9 Amp. Motor F.L.C.
133-138	CC 156	200	
139-143	CC 167	200	
144-149	CC 180	200	Not Suitable Above 86.9 Amp. Motor F.L.C.

SELECTION TABLES 206 thru 207

TABLE 206

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J Fuses Only	All Fuses Except Class J
27.2-30.7	AU 20	60	
30.8-34.5	AU 23	70	
34.6-39.3	AU 26	80	
39.4-44.5	AU 29	90	Fuse Rating Must be 100 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
44.6-50.4	AU 33	100	
50.5-53.4	AU 38	110	
53.5-59.4	AU 40	110	
59.5-66.4	AU 44	125	
66.5-73.4	AU 50	150	
73.5-82.3	AU 56	150	
82.4-91.7	AU 64	175	
91.8-104	AU 72	200	
105-112	AU 81	200	Not Suitable Above 66.9 Amp. Motor F.L.C.
113-123	AU 88	200	
124-133	AU 99	200	
134-149	AU 110	200	

TABLE 207

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)			
		Each Winding Protected by its Own Set of Fuses		Both Windings Protected by a Common Set of Fuses	
		Class J Fuses Only	All Fuses Except Class J	Class J Fuses Only	
0.58-0.63	B 0.44	1	0.6		
0.64-0.73	B 0.51	1	0.6		
0.74-0.77	B 0.57	1	0.8		
0.78-0.93	B 0.63	1	0.8	Fuse rating must be 60 Amp. or less and must not exceed 2.0 times motor full-load current.	
0.94-1.11	B 0.71	1	1		
1.12-1.23	B 0.81	1	1.25		
1.24-1.33	B 0.92	1	1.25		
1.34-1.51	B 1.03	1	1.4		
1.52-1.67	B 1.16	3	1.6		
1.68-1.87	B 1.30	3	1.8		
1.88-2.13	B 1.45	3	2		
2.14-2.37	B 1.67	3	2.25		
2.38-2.63	B 1.88	3	2.5		
2.64-2.95	B 2.10	3	2.8		
2.96-3.35	B 2.40	3	3.2		
3.36-3.67	B 2.65	6	3.5		
3.68-4.09	B 3.00	6	4		
4.10-4.77	B 3.30	6	4.5		
4.78-5.21	B 3.70	6	5		
5.22-6.27	B 4.15	10	5.6		
6.28-7.19	B 4.85	10	7		
7.20-7.89	B 5.50	10	8		
7.90-8.39	B 6.25	15	8		
8.40-9.45	B 6.90	15	9		
9.46-10.3	B 7.70	15	10		
10.4-10.9	B 8.20	20	10		
11.0-12.3	B 9.10	20	12		
12.4-14.1	B 10.2	20	12		
14.2-16.0	B 11.5	25	15		
16.1-17.3	B 12.8	30	17.5		
17.4-18.6	B 14	30	17.5		
18.7-20.5	B 15.5	35	20		
20.6-22.7	B 17.5	40	20		
22.8-24.3	B 19.5	45	25		
24.4-27.5	B 22	45	25		
27.6-30.5	B 25	50	30		
30.6-34.5	B 28.0	60	30		
				600V. Max.	250V. Max.
34.6-37.9	B 32	60	30	30	35
38.0-42.9	B 36	60	30	30	40
43.0-47.5	B 40	60	30	30	40
47.6-52.0	B 45	60	30	30	40

SELECTION TABLES 208 thru 210

TABLE 208

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)			
		Each Winding Protected by its Own Set of Fuses		Both Windings Protected by a Common Set of Fuses	
		Class J Fuses Only	All Fuses Except Class J	Class J Fuses Only	
0.56-0.61	AR .45	1	0.6	Fuse rating must be 60 Amp. or less and must not exceed 2.0 times motor full-load current.	
0.62-0.67	AR .49	1	0.6		
0.68-0.73	AR .54	1	0.6		
0.74-0.79	AR .59	1	0.8		
0.80-0.85	AR .65	1	0.8		
0.86-0.93	AR .71	1	0.8		
0.94-1.01	AR .78	1	1		
1.02-1.05	AR .86	1	1.125		
1.06-1.13	AR .95	1	1.125		
1.14-1.21	AR 1.05	1	1.25		
1.22-1.33	AR 1.15	1	1.25		
1.34-1.47	AR 1.26	1	1.4		
1.48-1.63	AR 1.39	1	1.6		
1.64-1.81	AR 1.53	3	1.8		
1.82-2.11	AR 1.68	3	2		
2.12-2.31	AR 1.85	3	2.25		
2.32-2.51	AR 2.04	3	2.5		
2.52-2.71	AR 2.24	3	2.8		
2.72-2.95	AR 2.46	3	2.8		
2.96-3.17	AR 2.71	3	3.2		
3.18-3.49	AR 2.98	6	3.5		
3.50-3.89	AR 3.28	6	3.5		
3.90-4.41	AR 3.62	6	4		
4.42-4.95	AR 3.98	6	4.5		
4.96-5.53	AR 4.37	6	5		
5.54-6.15	AR 4.80	10	5.6		
6.16-6.91	AR 5.3	10	6.25		
6.92-7.63	AR 5.8	10	7		
7.64-8.41	AR 6.4	15	8		
8.42-9.31	AR 7.0	15	9		
9.32-10.5	AR 7.7	15	10		
10.6-11.6	AR 8.5	20	10		
11.7-12.5	AR 9.3	20	12		
12.6-13.9	AR 10.2	25	12		
14.0-15.1	AR 11.2	25	15		
15.2-15.7	AR 12.4	30	15		
15.8-17.8	AR 13.6	30	17.5		
17.9-20.7	AR 15.4	35	20		
20.8-23.5	AR 17.6	40	20		
23.6-26.7	AR 20.5	45	25		
26.8-30.5	AR 23	50	30		
30.6-34.5	AR 27	60	30		
			600V. Max.		
			250V. Max.		
34.6-39.5	AR 30	60	30	35	
39.6-44.9	AR 35	60	30	40	
45.0-52.0	AR 40	60	30	40	

TABLE 210

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)			
		Each Winding Protected by its Own Set of Fuses		Both Windings Protected by a Common Set of Fuses	
		Class J Fuses Only	All Fuses Except Class J	Class J Fuses Only	
0.62-0.67	AR .45	1	0.6	Fuse rating must be 60 Amp. or less and must not exceed 2.0 times motor full-load current.	
0.68-0.73	AR .49	1	0.6		
0.74-0.79	AR .54	1	0.8		
0.80-0.87	AR .59	1	0.8		
0.88-0.95	AR .65	1	0.8		
0.96-1.03	AR .71	1	1		
1.04-1.13	AR .78	1	1.125		
1.14-1.17	AR .86	1	1.25		
1.18-1.29	AR .95	1	1.25		
1.30-1.41	AR 1.05	1	1.4		
1.42-1.55	AR 1.15	1	1.4		
1.56-1.71	AR 1.26	3	1.6		
1.72-1.89	AR 1.39	3	1.8		
1.90-2.07	AR 1.53	3	2		
2.08-2.45	AR 1.68	3	2.25		
2.46-2.69	AR 1.85	3	2.5		
2.70-2.93	AR 2.04	3	2.8		
2.94-3.17	AR 2.24	3	3.2		
3.18-3.53	AR 2.46	6	3.5		
3.54-3.71	AR 2.71	6	3.5		
3.72-4.17	AR 2.98	6	4		
4.18-4.55	AR 3.28	6	4.5		
4.56-5.03	AR 3.62	6	5		
5.04-5.81	AR 3.98	10	5.6		
5.82-6.47	AR 4.37	10	6.25		
6.48-7.17	AR 4.80	10	7		
7.18-8.05	AR 5.3	10	8		
8.06-8.87	AR 5.8	15	9		
8.88-9.73	AR 6.4	15	9		
9.74-10.7	AR 7.0	15	10		
10.8-12.2	AR 7.7	20	12		
12.3-13.2	AR 8.5	20	12		
13.3-14.5	AR 9.3	25	12		
14.6-15.8	AR 10.2	25	15		
15.9-17.3	AR 11.2	30	17.5		
17.4-17.9	AR 12.4	30	17.5		
18.0-20.3	AR 13.6	35	20		
20.4-23.1	AR 15.4	40	20		
23.2-26.1	AR 17.6	45	25		
26.2-29.3	AR 20.5	50	25		
29.4-33.1	AR 23	50	30		
			600V. Max.		
			250V. Max.		
33.2-37.1	AR 27	60	30	35	
37.2-42.1	AR 30	60	30	40	
42.2-47.3	AR 35	60	30	40	
47.4-52.0	AR 40	60	30	40	

SELECTION TABLES 211 thru 214

TABLE 211

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)		
		Each Winding Protected by its Own Set of Fuses		Both Windings Protected by a Common Set of Fuses
		Class J Fuses Only	All Fuses Except Class J	Class J Fuses Only
6.56-7.03 7.04-7.79 7.80-8.29	B 4.85 B 5.50 B 6.25	10 10 15	7 7 8	Fuse rating must be 100 Amp. or less and must not exceed 2.0 times motor full-load current.
8.30-9.47 9.48-10.4 10.5-11.0	B 6.90 B 7.70 B 8.20	15 15 20	9 10 10	
11.1-12.3 12.4-14.3 14.4-16.3	B 9.10 B 10.2 B 11.5	20 20 25	12 12 15	
16.4-17.7 17.8-19.1 19.2-21.3	B 12.8 B 14 B 15.5	30 35 35	17.5 20 20	
21.4-23.7 23.8-25.5 25.6-28.9	B 17.5 B 19.5 B 22	40 45 50	20 25 25	
29.0-32.3 32.4-36.5 36.6-40.5	B 25 B 28.0 B 32	50 60 70	30 35 40	
40.6-45.7 45.8-51.3 51.4-57.7	B 36 B 40 B 45	80 90 100	45 50 50	
57.8-61.3 61.4-64.9 65.0-69.3	B 50 B 56 B 62	100 100 100	60 60 60	
69.4-77.3 77.4-90.0	B 70 B 79	100 100	60 60	

TABLE 214

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)			Max. Cir. Breaker Rating (Cont. Amp.)
		Each Winding Protected By Its Own Set Of Fuses		Both Windings Protected By A Common Set Of Fuses	
		Class J Fuses Only	All Fuses Except Class J	Class J Fuses Only	
10.3-11.9 12.0-12.9 13.0-14.0	AR 8.5 AR 9.3 AR 10.2	20 20 25	10 12 12	Fuse Rating Must Be 100 Amp. Or Less And Must Not Exceed 2.0 Times Motor Full-Load Current	15 15 15
14.1-15.1 15.2-15.8 15.9-18.0	AR 11.2 AR 12.4 AR 13.6	25 30 30	15 15 17.5		15 15 15
18.1-20.5 20.6-23.1 23.2-26.5	AR 15.4 AR 17.6 AR 20.5	35 40 45	20 20 25		30 30 30
26.6-29.9 30.0-33.9 34.0-38.7	AR 23 AR 27 AR 30	50 60 60	25 30 35		30 40 40
38.8-43.5 43.6-50.1 50.2-54.1	AR 35 AR 40 AR 44	70 80 100	40 45 50		70 70 70
54.2-58.3 58.4-61.7 61.8-65.9	AR 47 AR 51 AR 55	100 100 100	60 60 60		70 70 70
66.0-70.1 70.2-74.3 74.1-78.3	AR 60 AR 66 AR 72	100 100 100	60 60 60		70 70 70
78.4-83.1 83.2-90.0	AR 79 AR 86	100 100	60 60		70 70

TABLE 212

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)		
		Each Winding Protected by its Own Set of Fuses		Both Windings Protected by a Common Set of Fuses
		Class J Fuses Only	All Fuses Except Class J	Class J Fuses Only
8.48-9.25 9.26-10.0 10.1-11.0	AR 8.5 AR 9.3 AR 10.2	15 15 20	9 10 10	Fuse rating must be 100 Amp. or less and must not exceed 2.0 times motor full-load current.
11.1-12.2 12.3-12.8 12.9-14.9	AR 11.2 AR 12.4 AR 13.6	20 20 25	12 12 12	
15.0-17.0 17.1-19.4 19.5-22.3	AR 15.4 AR 17.6 AR 20.5	30 30 35	15 17.5 20	
22.4-25.5 25.6-28.9 29.0-32.9	AR 23 AR 27 AR 30	40 50 50	25 25 30	
33.0-37.9 38.0-43.3 43.4-46.7	AR 35 AR 40 AR 44	60 70 80	35 40 45	
46.8-49.9 50.0-53.9 54.0-58.3	AR 47 AR 51 AR 55	90 100 100	50 50 60	
58.4-62.7 62.8-67.1 67.2-73.9	AR 60 AR 66 AR 72	100 100 100	60 60 60	
74.0-78.3 78.4-81.9 82.0-90.0	AR 79 AR 86 AR 94	100 100 100	60 60 60	

SELECTION TABLES 215 thru 217

TABLE 215

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)			
		Each Winding Protected by its Own Set of Fuses		Both Windings Protected by a Common Set of Fuses	
		Class J Fuses Only	All Fuses Except Class J	Class J Fuses Only	
28.6-30.9	CC 20.9	50	30	Fuse rating must be 200 Amp. or less and must not exceed 2.0 times motor full-load current.	
31.0-32.9	CC 22.8	60	30		
33.0-37.1	CC 24.6	60	35		
37.2-39.3	CC 26.3	70	40		
39.4-42.3	CC 28.8	70	40		
42.4-45.5	CC 31.0	80	45		
45.6-48.9	CC 33.3	90	50		
49.0-52.3	CC 36.4	90	50		
52.4-56.3	CC 39.6	100	50		
56.4-60.1	CC 42.7	110	60		
60.2-64.3	CC 46.6	110	60		
64.4-69.5	CC 50.1	125	70		
69.6-74.7	CC 54.5	125	70		
74.8-80.3	CC 59.4	125	80		
80.4-85.3	CC 64.3	150	90		
85.4-91.7	CC 68.5	150	90		
91.8-96.7	CC 74.6	175	100		
96.8-104	CC 81.5	175	100		
			600V. Max.	250V. Max.	
105-113	CC 87.7	200	100	110	
114-121	CC 94.0	200	100	125	
122-129	CC 103	200	100	125	
130-135	CC 112	200	100	125	
136-141	CC 121	200	100	125	
142-147	CC 132	200	100	125	
148-152	CC 143	200	100	125	
153-160	CC 156	200	100	125	
161-165	CC 167	200	100	125	
166-172	CC 180	200	100	125	

TABLE 217

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.29-0.30	AR 45	0.6
0.31-0.33	AR 49	0.6
0.34-0.37	AR 54	0.6
0.38-0.41	AR 59	0.8
0.42-0.45	AR 65	0.8
0.46-0.50	AR 71	1
0.51-0.55	AR 78	1.125
0.56-0.57	AR 86	1.25
0.58-0.60	AR 95	1.25
0.61-0.66	AR 1.05	1.25
0.67-0.73	AR 1.15	1.4
0.74-0.81	AR 1.26	1.6
0.82-0.90	AR 1.39	1.8
0.91-0.99	AR 1.53	2
1.00-1.18	AR 1.68	2.25
1.19-1.30	AR 1.85	2.5
1.31-1.42	AR 2.04	2.8
1.43-1.49	AR 2.24	3.2
1.50-1.69	AR 2.46	3.2
1.70-1.85	AR 2.71	3.5
1.86-2.03	AR 2.98	4
2.04-2.25	AR 3.28	4.5
2.26-2.50	AR 3.62	5
2.51-2.68	AR 3.98	5.6
2.69-3.01	AR 4.37	5.6
3.02-3.35	AR 4.80	6.25
3.36-3.74	AR 5.3	7
3.75-4.14	AR 5.8	8
4.15-4.57	AR 6.4	9
4.58-5.03	AR 7.0	10
5.04-5.76	AR 7.7	10
5.77-6.29	AR 8.5	12
6.30-6.87	AR 9.3	12
6.88-7.54	AR 10.2	15
7.55-8.25	AR 11.2	15
8.26-8.60	AR 12.4	17.5
8.61-9.63	AR 13.6	17.5
9.64-11.1	AR 15.4	20
11.2-12.5	AR 17.6	25
12.6-14.3	AR 20.5	25
14.4-16.1	AR 23	30
		600V. Max.
16.2-18.2	AR 27	35
		250V. Max.
18.3-20.6	AR 30	40
20.7-23.4	AR 35	40
23.5-26.0	AR 40	40

TABLE 216

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)			
		Each Winding Protected by its Own Set of Fuses		Both Windings Protected by a Common Set of Fuses	
		Class J Fuses Only	All Fuses Except Class J	Class J Fuses Only	
31.4-35.5	AU 20	60	35	Fuse rating must be 200 Amp. or less and must not exceed 2.0 times motor full-load current.	
35.6-39.9	AU 23	70	40		
40.0-45.5	AU 26	80	45		
45.6-51.5	AU 29	90	50		
51.6-58.3	AU 33	100	50		
58.4-61.7	AU 38	110	60		
61.8-68.7	AU 40	110	60		
68.8-76.7	AU 44	125	70		
76.8-84.7	AU 50	150	80		
84.8-95.1	AU 56	150	90		
95.2-105	AU 64	175	100		
			600V. Max.	250V. Max.	
106-120	AU 72	200	100	110	
121-129	AU 81	200	100	125	
130-142	AU 88	200	100	125	
143-154	AU 99	200	100	125	
155-172	AU 110	200	100	125	

SELECTION TABLES 218 thru 225

TABLE 218

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
0.31-0.32	AR .45	0.6	
0.33-0.36	AR .49	0.6	
0.37-0.39	AR .54	0.8	
0.40-0.43	AR .59	0.8	
0.44-0.47	AR .65	0.8	
0.48-0.52	AR .71	1	
0.53-0.58	AR .78	1.125	
0.59-0.60	AR .86	1.25	
0.61-0.62	AR .95	1.25	
0.63-0.69	AR 1.05	1.4	
0.70-0.76	AR 1.15	1.4	
0.77-0.84	AR 1.26	1.6	
0.85-0.93	AR 1.39	1.8	
0.94-1.03	AR 1.53	2	
1.04-1.23	AR 1.68	2.25	
1.24-1.35	AR 1.85	2.5	
1.36-1.47	AR 2.04	2.8	
1.48-1.61	AR 2.24	3.2	
1.62-1.76	AR 2.46	3.5	
1.77-1.93	AR 2.71	3.5	
1.94-2.12	AR 2.98	4	
2.13-2.35	AR 3.28	4.5	
2.36-2.61	AR 3.62	5	
2.62-2.79	AR 3.98	5.6	
2.80-3.14	AR 4.37	6.25	
3.15-3.48	AR 4.80	7	
3.49-3.89	AR 5.3	7	
3.90-4.30	AR 5.8	8	
4.31-4.73	AR 6.4	9	
4.74-5.20	AR 7.0	10	
5.21-5.95	AR 7.7	10	
5.96-6.49	AR 8.5	12	
6.50-7.08	AR 9.3	12	
7.09-7.77	AR 10.2	15	
7.78-8.48	AR 11.2	17.5	
8.49-9.15	AR 12.4	17.5	
9.16-10.3	AR 13.6	20	
10.4-11.9	AR 15.4	20	
12.0-13.4	AR 17.6	25	
13.5-15.4	AR 20.5	30	
15.5-17.5	AR 23	30	
		600V. Max.	250V. Max.
17.6-19.8	AR 27	30	35
19.9-22.5	AR 30	30	40
22.6-26.0	AR 35	30	40

TABLE 219

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
4.14-4.71	AR 8.5	9
4.72-5.18	AR 9.3	10
5.19-5.74	AR 10.2	10
5.75-5.98	AR 11.2	12
5.99-6.47	AR 12.4	12
6.48-7.42	AR 13.6	12
7.43-8.46	AR 15.4	15
8.47-9.56	AR 17.6	17.5
9.57-10.9	AR 20.5	20
11.0-12.3	AR 23	20
12.4-14.0	AR 27	25
14.1-15.9	AR 30	30
16.0-18.1	AR 35	35
18.2-20.3	AR 40	40
20.4-22.0	AR 44	45
22.1-23.6	AR 47	45
23.7-25.5	AR 51	50
25.6-27.8	AR 55	50
27.9-30.0	AR 60	60
30.1-32.4	AR 66	60
32.5-35.7	AR 72	60
35.8-38.3	AR 79	60
38.4-40.9	AR 86	60
41.0-45.0	AR 93	60

TABLE 223

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
19.9-20.8	FB 26.7	40	
20.9-22.2	FB 28.3	45	
22.3-23.8	FB 29.6	50	
23.9-25.4	FB 30.5	50	
25.5-27.2	FB 32.6	50	
27.3-29.2	FB 34.1	60	
29.3-31.9	FB 38.3	60	
32.0-33.8	FB 40.2	70	
33.9-36.1	FB 42	70	
36.2-38.5	FB 44	80	
38.6-41.4	FB 46	80	
41.5-43.6	FB 48	90	
43.7-45.9	FB 50.5	90	
46.0-48.2	FB 52.5	100	
48.3-50.7	FB 55.5	100	
		600V. Max.	250V. Max.
50.8-53.9	FB 58	100	110
54.0-56.7	FB 60	100	110
56.8-60.8	FB 63.5	100	125
60.9-67.6	FB 69	100	125
67.7-73.6	FB 77	100	125
73.7-82.9	FB 84	100	125
83.0-86.0	FB 92	100	125

TABLE 220

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
4.32-4.93	AR 8.5	9
4.94-5.40	AR 9.3	10
5.41-5.95	AR 10.2	12
5.96-6.13	AR 11.2	12
6.14-6.81	AR 12.4	12
6.82-7.84	AR 13.6	15
7.85-8.97	AR 15.4	17.5
8.98-10.1	AR 17.6	20
10.2-11.6	AR 20.5	20
11.7-13.2	AR 23	25
13.3-15.0	AR 27	25
15.1-17.1	AR 30	30
17.2-19.6	AR 35	35
19.7-21.9	AR 40	40
22.0-23.8	AR 44	45
23.9-25.6	AR 47	50
25.7-27.9	AR 51	50
28.0-30.5	AR 55	60
30.6-33.0	AR 60	60
33.1-35.7	AR 66	60
35.8-39.5	AR 72	60
39.6-41.5	AR 79	60
41.6-45.0	AR 86	60

TABLE 225

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
20.5-21.7	FB 26.7	45	
21.8-23.1	FB 28.3	45	
23.2-24.8	FB 29.6	50	
24.9-26.5	FB 30.5	50	
26.6-28.4	FB 32.6	50	
28.5-30.4	FB 34.1	60	
30.5-32.8	FB 38.3	60	
32.9-34.9	FB 40.2	70	
35.0-37.3	FB 42	70	
37.4-39.8	FB 44	80	
39.9-42.5	FB 46	80	
42.6-45.8	FB 48	90	
45.9-48.2	FB 50.5	100	
48.3-50.6	FB 52.5	100	
		600V. Max.	250V. Max.
50.7-53.1	FB 55.5	100	110
53.2-56.5	FB 58	100	110
56.6-59.4	FB 60	100	125
59.5-63.4	FB 63.5	100	125
63.5-71.0	FB 69	100	125
71.1-78.8	FB 77	100	125
78.9-86.0	FB 84	100	125



SELECTION TABLES 226 thru 235

TABLE 226

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
41.1-43.5	CC 64.3	90
43.6-46.8	CC 68.5	90
46.9-50.0	CC 74.6	100
50.1-54.9	CC 81.5	110
55.0-57.5	CC 87.7	110
57.6-61.8	CC 94.0	125
61.9-66.2	CC 103	125
66.3-72.4	CC 112	125
72.5-78.1	CC 121	150
78.2-80.7	CC 132	175
80.8-86.5	CC 143	175
86.6-93.9	CC 156	175
94.0-100	CC 167	200
101-112	CC 180	200
113-117	CC 196	200
118-123	CC 208	200
124-133	CC 219	200

TABLE 227

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
45.3-48.2	CC 64.3	100
48.3-52.4	CC 68.5	100
52.5-56.4	CC 74.6	110
56.5-61.2	CC 81.5	125
61.3-66.1	CC 87.7	125
66.2-71.4	CC 94.0	125
71.5-77.0	CC 103	150
77.1-79.0	CC 112	150
79.1-84.7	CC 121	175
84.8-91.1	CC 132	175
91.2-98.1	CC 143	200
98.2-104	CC 156	200
105-113	CC 167	200
114-123	CC 180	200
124-133	CC 196	200

TABLE 229

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
40.3-42.8	CC 64.3	90
42.9-46.2	CC 68.5	90
46.3-49.8	CC 74.6	100
49.9-54.9	CC 81.5	110
55.0-57.9	CC 87.7	110
58.0-62.5	CC 94.0	125
62.6-67.3	CC 103	125
67.4-73.4	CC 112	150
73.5-78.9	CC 121	150
79.0-84.9	CC 132	175
85.0-91.0	CC 143	175
91.1-97.2	CC 156	200
97.3-104	CC 167	200
105-121	CC 180	200
122-133	CC 196	200

TABLE 230

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
45.3-48.2	CC 64.3	100
48.3-52.4	CC 68.5	100
52.5-56.4	CC 74.6	110
56.5-61.2	CC 81.5	125
61.3-66.1	CC 87.7	125
66.2-71.4	CC 94.0	125
71.5-77.0	CC 103	150
77.1-80.7	CC 112	150
80.8-87.7	CC 121	175
87.8-94.9	CC 132	175
95.0-102	CC 143	200
103-110	CC 156	200
111-117	CC 167	200
118-133	CC 180	200

TABLE 231

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
48.0-50.9	FB 50.5	100
51.0-53.7	FB 52.5	110
53.8-57.0	FB 55.5	110
57.1-60.4	FB 58	125
60.5-64.0	FB 60	125
64.1-71.9	FB 63.5	125
72.0-83.9	FB 69	150
84.0-93.1	FB 77	175
93.2-104	FB 84	200
105-109	FB 92	200
110-123	FB 105	200
124-133	FB 115	200

TABLE 232

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
52.2-55.6	FB 50.5	110
55.7-58.8	FB 52.5	125
58.9-62.5	FB 55.5	125
62.6-66.0	FB 58	125
66.1-70.1	FB 60	125
70.2-78.6	FB 63.5	150
78.7-92.0	FB 69	175
92.1-102	FB 77	200
103-114	FB 84	200
115-123	FB 92	200
124-133	FB 105	200

TABLE 233

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
39.0-42.9	AU 44	80
43.0-48.0	AU 50	90
48.1-54.7	AU 56	100
54.8-62.2	AU 64	110
62.3-71.3	AU 72	125
71.4-76.0	AU 81	150
76.1-85.5	AU 88	150
85.6-92.4	AU 99	175
92.5-103	AU 110	200
104-114	AU 123	200
115-133	AU 135	200

TABLE 234

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
37.0-40.8	AU 44	80
40.9-45.6	AU 50	90
45.7-51.8	AU 56	100
51.9-59.8	AU 64	110
58.9-67.4	AU 72	125
67.5-70.4	AU 81	150
70.5-79.4	AU 88	150
79.5-86.3	AU 99	175
86.4-96.7	AU 110	200
96.8-105	AU 123	200
106-117	AU 135	200
118-133	AU 152	200

TABLE 235

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
30.5-33.4	AU 44	60
33.5-37.1	AU 50	70
37.2-42.0	AU 56	80
42.1-47.0	AU 64	90
47.1-53.5	AU 72	100
53.6-57.5	AU 81	110
57.6-64.4	AU 88	125
64.5-69.4	AU 99	125
69.5-77.4	AU 110	150
77.5-83.6	AU 123	150
83.7-92.9	AU 135	175
93.0-100	AU 152	200
101-104	AU 169	200
105-115	AU 183	200
116-119	AU 198	200
120-123	AU 217	200
124-133	AU 235	200

SELECTION TABLES 236 thru 240

TABLE 236

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
34.7-37.1 37.2-41.5 41.6-47.1	AU 44 AU 50 AU 56	70 80 90
47.2-53.4 53.5-60.7 60.8-64.9	AU 64 AU 72 AU 81	100 110 125
65.0-73.4 73.5-79.5 79.6-89.0	AU 88 AU 99 AU 110	125 150 175
89.1-96.9 97.0-108 109-115	AU 123 AU 135 AU 152	200 200 200
116-120 121-133	AU 169 AU 183	200 200

TABLE 237

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J Fuses Only	All Fuses Except Class J
78.5-83.5 83.6-90.8 90.9-97.7	CC 64.3 CC 68.5 CC 74.6	175 175 200	Fuse Rating Must be 200 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
97.8-105 106-114 115-123	CC 81.5 CC 87.7 CC 94.0	225 225 250	
124-133 134-136 137-146	CC 103 CC 112 CC 121	250 300 300	
147-157 158-169 170-181	CC 132 CC 143 CC 156	300 350 350	
182-196 197-214 215-230	CC 167 CC 180 CC 196	400 400 400	

TABLE 238

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J Fuses Only	All Fuses Except Class J
60.1-64.3 64.4-72.0 72.1-81.7	AU 44 AU 50 AU 56	125 125 150	Fuse Rating Must be 200 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
81.8-92.6 92.7-104 105-112	AU 64 AU 72 AU 81	175 200 225	
113-126 127-137 138-153	AU 88 AU 99 AU 110	250 250 300	
154-167 168-188 189-200	AU 123 AU 135 AU 152	350 350 400	
201-209 210-230	AU 169 AU 183	400 400	

TABLE 239

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)		
		Each Winding Protected by its Own Set of Fuses		Both Windings Protected by a Common Set of Fuses
		Class J Fuses Only	All Fuses Except Class J	Class J Fuses Only
90.6-96.5 96.6-104 105-112	CC 64.3 CC 68.5 CC 74.6	175 175 200	100 100 110	Fuse rating must be 400 Amp. or less and must not exceed 2.0 times motor full-load current.
113-122 123-131 132-142	CC 81.5 CC 87.7 CC 94.0	225 225 250	125 125 125	
143-153 154-157 158-169	CC 103 CC 112 CC 121	250 300 300	150 150 175	
170-181 182-195 196-209	CC 132 CC 143 CC 156	300 350 350	175 200 200	
210-227 228-247 248-266	CC 167 CC 180 CC 196	400 400 400	200 200 200	

TABLE 240

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)		
		Each Winding Protected by its Own Set of Fuses		Both Windings Protected by a Common Set of Fuses
		Class J Fuses Only	All Fuses Except Class J	Class J Fuses Only
69.4-74.3 74.4-83.1 83.2-94.3	AU 44 AU 50 AU 56	125 125 150	70 80 90	Fuse rating must be 400 Amp. or less and must not exceed 2.0 times motor full-load current.
94.4-106 107-121 122-129	AU 64 AU 72 AU 81	175 200 225	100 110 125	
130-146 147-158 159-177	AU 88 AU 99 AU 110	250 250 300	125 150 175	
178-193 194-217 218-231	AU 123 AU 135 AU 152	350 350 400	200 200 200	
232-241 242-266	AU 169 AU 183	400 400	200 200	

SELECTION TABLES 245 thru 262

TABLE 245

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
82.5-88.2	DD 112	175
88.3-95.9	DD 121	175
96.0-102	DD 128	200
103-109	DD 140	225
110-121	DD 150	225
122-139	DD 160	250
140-154	DD 185	300
155-163	DD 220	300
164-175	DD 240	350
176-184	DD 250	350
185-195	DD 265	400
196-215	DD 280	400
216-224	DD 300	400
225-243	DD 320	400
244-266	DD 340	400

TABLE 246

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
88.2-95.1	DD 112	175
95.2-101	DD 121	200
102-111	DD 128	225
112-119	DD 140	250
120-131	DD 150	250
132-149	DD 160	250
150-170	DD 185	300
171-180	DD 220	350
181-197	DD 240	400
198-204	DD 250	400
205-213	DD 265	400
214-237	DD 280	400
238-243	DD 300	400
244-266	DD 320	400

TABLE 249

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
42.9-45.4	FB 44	90
45.6-48.3	FB 46	100
48.4-52.4	FB 48	100
52.5-55.9	FB 50.5	110
56.0-59.8	FB 52.5	125
59.9-63.8	FB 55.5	125
63.9-67.9	FB 58	125
68.0-72.6	FB 60	150
72.7-83.2	FB 63.5	150
83.3-94.7	FB 69	175
94.8-105	FB 77	200
106-116	FB 84	200
117-121	FB 92	200
122-133	FB 105	200

TABLE 255

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
85.0-95.9	AF 123	175
96.0-108	AF 135	200
109-127	AF 150	225
128-136	AF 159	250
137-147	AF 168	300
148-162	AF 188	300
163-185	AF 205	350
186-202	AF 220	400
203-219	AF 240	400
220-233	AF 260	400
234-266	AF 308	400

TABLE 256

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
92.0-103	AF 123	200
104-116	AF 135	225
117-139	AF 150	250
140-150	AF 159	300
151-167	AF 168	300
168-177	AF 188	350
178-205	AF 205	400
206-222	AF 220	400
223-232	AF 240	400
233-247	AF 260	400
248-266	AF 308	400

TABLE 260

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J Fuses Only	All Fuses Except Class J
153-164	DD 112	350	Fuse Rating Must be 400 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
165-176	DD 121	350	
177-193	DD 128	400	
194-207	DD 140	400	Fuse Rating Must be 400 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
208-228	DD 150	450	
229-259	DD 160	500	
260-295	DD 185	600	Not Suitable Above 347 Amp. Motor F.L.C.
296-313	DD 220	600	
314-342	DD 240	600	
343-354	DD 250	600	Not Suitable Above 347 Amp. Motor F.L.C.
355-370	DD 265	600	
371-411	DD 280	600	
412-422	DD 300	600	Not Suitable Above 347 Amp. Motor F.L.C.
423-460	DD 320	600	

TABLE 261

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J Fuses Only	All Fuses Except Class J
160-179	AF 123	350	Fuse Rating Must be 400 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
180-202	AF 135	400	
203-242	AF 150	450	
243-261	AF 159	500	Not Suitable Above 347 Amp. Motor F.L.C.
262-290	AF 168	600	
291-307	AF 188	600	
308-356	AF 205	600	Not Suitable Above 347 Amp. Motor F.L.C.
357-385	AF 220	600	
386-403	AF 240	600	
404-429	AF 260	600	Not Suitable Above 347 Amp. Motor F.L.C.
430-460	AF 308	600	

TABLE 262

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)		
		Each Winding Protected by its Own Set of Fuses		Both Windings Protected by a Common Set of Fuses
		Class J Fuses Only	All Fuses Except Class J	Class J Fuses Only
176-190	DD 112	350	175	Fuse rating must be 600 Amp. or less and must not exceed 2.0 times motor full-load current.
191-203	DD 121	350	200	
204-223	DD 128	400	225	
224-239	DD 140	400	250	Fuse rating must be 600 Amp. or less and must not exceed 2.0 times motor full-load current.
240-263	DD 150	450	250	
264-299	DD 160	500	250	
300-341	DD 185	600	300	Fuse rating must be 600 Amp. or less and must not exceed 2.0 times motor full-load current.
342-361	DD 220	600	350	
362-395	DD 240	600	400	
396-409	DD 250	600	400	Fuse rating must be 600 Amp. or less and must not exceed 2.0 times motor full-load current.
410-427	DD 265	600	400	
428-475	DD 280	600	400	
476-487	DD 300	600	400	Fuse rating must be 600 Amp. or less and must not exceed 2.0 times motor full-load current.
488-532	DD 320	600	400	

SELECTION TABLES 263 thru 281

TABLE 263

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)		
		Each Winding Protected by its Own Set of Fuses		Both Windings Protected by a Common Set of Fuses
		Class J Fuses Only	All Fuses Except Class J	
184-207 208-233 234-279	AF 123 AF 135 AF 150	350 400 450	200 225 250	Fuse rating must be 600 Amp. or less and must not exceed 2.0 times motor full-load current.
280-301 302-335 336-355	AF 159 AF 168 AF 188	500 600 600	300 300 350	
356-411 412-445 446-465	AF 205 AF 220 AF 240	600 600 600	400 400 400	
466-495 496-532	AF 260 AF 308	600 600	400 400	

TABLE 270

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
43.6-45.5	CC 64.3	90
45.6-49.6	CC 68.5	100
49.7-53.1	CC 74.6	110
53.2-57.6	CC 81.5	110
57.7-62.4	CC 87.7	125
62.5-67.5	CC 94.0	125
67.6-71.1	CC 103	150
71.2-75.9	CC 112	150
76.0-81.9	CC 121	150
82.0-84.6	CC 132	175
84.7-90.7	CC 143	175
90.8-98.4	CC 156	200
98.5-105	CC 167	200
106-117	CC 180	200
118-123	CC 196	200
124-133	CC 208	200

TABLE 276

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
33.0-36.1	AU 44	70
36.2-40.2	AU 50	80
40.3-45.5	AU 56	90
45.6-51.3	AU 64	100
51.4-58.5	AU 72	110
58.6-62.6	AU 81	125
62.7-71.3	AU 88	125
71.4-77.1	AU 99	150
77.2-86.9	AU 110	150
87.0-93.3	AU 123	175
93.4-102	AU 135	200
103-107	AU 152	200
108-112	AU 169	200
113-121	AU 183	200
122-123	AU 198	200
124-133	AU 217	200

TABLE 281

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		600V. Max.	250V. Max.
13.6-14.5	CC 20.9	30	
14.6-15.5	CC 22.8	30	
15.6-17.4	CC 24.6	35	
17.5-18.5	CC 26.3	35	
18.6-19.9	CC 28.8	40	
20.0-21.5	CC 31.0	45	
21.6-22.9	CC 33.3	45	
23.0-24.5	CC 36.4	50	
24.6-26.3	CC 39.6	50	
26.4-28.2	CC 42.7	50	
28.3-30.0	CC 46.6	60	
30.1-32.3	CC 50.1	60	
32.4-34.9	CC 54.5	70	
35.0-37.6	CC 59.4	70	
37.7-40.0	CC 64.3	80	
40.1-42.8	CC 68.5	90	
42.9-45.3	CC 74.6	90	
45.4-49.1	CC 81.5	100	
49.2-53.4	CC 87.7	100	110
53.5-57.4	CC 94.0	100	110
57.5-61.3	CC 103	100	125
61.4-63.5	CC 112	100	125
63.6-66.3	CC 121	100	125
66.4-69.0	CC 132	100	125
69.1-70.9	CC 143	100	125
71.0-73.7	CC 156	100	125
73.8-76.5	CC 167	100	125
76.6-78.4	CC 180	100	125
78.5-86.0	CC 196	100	125

TABLE 271

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
46.8-50.0	CC 64.3	100
50.1-54.2	CC 68.5	110
54.3-58.3	CC 74.6	110
58.4-63.6	CC 81.5	125
63.7-68.5	CC 87.7	125
68.6-74.0	CC 94.0	150
74.1-79.8	CC 103	150
79.9-83.0	CC 112	175
83.1-88.9	CC 121	175
89.0-95.6	CC 132	200
95.7-102	CC 143	200
103-109	CC 156	200
110-119	CC 167	200
120-133	CC 180	200

TABLE 277

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
36.3-39.9	AU 44	80
40.0-44.1	AU 50	90
44.2-50.0	AU 56	90
50.1-56.4	AU 64	110
56.5-64.4	AU 72	125
64.5-68.4	AU 81	125
68.5-77.7	AU 88	150
77.8-84.2	AU 99	175
84.3-94.8	AU 110	175
94.9-101	AU 123	200
102-115	AU 135	200
116-122	AU 152	200
123-133	AU 169	200

SELECTION TABLES 282 thru 285

TABLE 282

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		600V. Max.	250V. Max.
14.9-16.1	CC 20.9	30	
16.2-17.3	CC 22.8	35	
17.4-19.5	CC 24.6	35	
19.6-20.7	CC 26.3	40	
20.8-22.4	CC 28.8	45	
22.5-23.9	CC 31.0	60	
24.0-25.8	CC 33.3	50	
25.9-27.6	CC 36.4	50	
27.7-29.7	CC 39.6	60	
29.8-31.8	CC 42.7	60	
31.9-34.2	CC 46.6	70	
34.3-37.0	CC 50.1	70	
37.1-39.6	CC 54.5	80	
39.7-42.5	CC 59.4	80	
42.6-45.0	CC 64.3	90	
45.1-48.6	CC 68.5	100	
48.7-51.2	CC 74.6	100	
51.3-56.0	CC 81.5	100	110
56.1-60.1	CC 87.7	100	125
60.2-64.3	CC 94.0	100	125
64.4-68.9	CC 103	100	125
69.0-71.9	CC 112	100	125
72.0-75.4	CC 121	100	125
75.5-78.9	CC 132	100	125
79.0-82.1	CC 143	100	125
82.2-86.0	CC 156	100	125

TABLE 283

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		600V. Max.	250V. Max.
14.3-15.4	CC 20.9	30	
15.5-16.4	CC 22.8	30	
16.5-18.5	CC 24.6	35	
18.6-19.6	CC 26.3	40	
19.7-21.1	CC 28.8	40	
21.2-22.7	CC 31.0	45	
22.8-24.4	CC 33.3	50	
24.5-26.1	CC 36.4	50	
26.2-28.1	CC 39.6	50	
28.2-30.0	CC 42.7	60	
30.1-32.1	CC 46.6	60	
32.2-34.7	CC 50.1	70	
34.8-37.3	CC 54.5	70	
37.4-40.1	CC 59.4	80	
40.2-42.6	CC 64.3	90	
42.7-45.8	CC 68.5	90	
45.9-48.3	CC 74.6	100	
48.4-52.6	CC 81.5	100	

(Cont'd)

TABLE 283 Continued

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		600V. Max.	250V. Max.
52.7-56.8	CC 87.7	100	110
56.9-60.9	CC 94.0	100	125
61.0-65.1	CC 103	100	125
65.2-67.7	CC 112	100	125
67.8-70.9	CC 121	100	125
71.0-73.9	CC 132	100	125
74.0-76.5	CC 143	100	125
76.6-80.2	CC 156	100	125
80.3-83.1	CC 167	100	125
83.2-86.0	CC 180	100	125

TABLE 284

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		600V. Max.	250V. Max.
2.38-2.62	FB 3.33	5	
2.63-2.94	FB 3.71	5.6	
2.95-3.31	FB 4.1	6.25	
3.32-3.43	FB 4.5	7	
3.44-3.81	FB 4.75	7	
3.82-4.32	FB 5.3	8	
4.33-4.75	FB 6.1	9	
4.76-5.38	FB 6.75	10	
5.39-5.75	FB 7.45	12	
5.76-5.97	FB 7.8	12	
5.98-6.30	FB 8.21	12	
6.31-6.55	FB 8.6	12	
6.56-6.89	FB 9.0	12	
6.90-7.14	FB 9.5	15	
7.15-7.36	FB 10	15	
7.37-8.30	FB 10.6	15	
8.31-8.59	FB 11.2	17.5	
8.60-9.01	FB 12.1	17.5	
9.02-9.68	FB 13.1	20	
9.69-9.99	FB 13.9	20	
10.0-10.9	FB 14.8	20	
11.0-11.3	FB 15.6	20	
11.4-12.0	FB 16.4	20	25
Following Selections for Size M-1 Only			
11.4-12.4	FB 16.4	25	25
12.5-12.9	FB 17.6	25	25
13.0-14.0	FB 18.4	25	25
14.1-14.5	FB 19.4	30	30
14.6-15.7	FB 21.1	30	30
15.8-16.6	FB 22.6	30	35
16.7-17.6	FB 23.6	30	35
17.7-18.3	FB 24.8	30	35
18.4-19.4	FB 26.7	30	40
19.5-20.5	FB 28.3	30	40
20.6-21.7	FB 29.6	30	40
21.8-22.8	FB 30.5	30	40
22.9-24.3	FB 32.6	30	40
24.4-24.7	FB 34.1	30	40
24.8-25.4	FB 35	30	40
25.5-26.0	FB 36.6	30	40

TABLE 285

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		600V. Max.	250V. Max.
2.42-2.67	FB 3.33	5	
2.68-3.00	FB 3.71	5.6	
3.01-3.36	FB 4.1	6.25	
3.37-3.53	FB 4.5	7	
3.54-3.91	FB 4.75	7	
3.92-4.41	FB 5.3	8	
4.42-4.83	FB 6.1	9	
4.84-5.45	FB 6.75	10	
5.46-5.89	FB 7.45	12	
5.90-6.04	FB 7.8	12	
6.05-6.55	FB 8.21	12	
6.56-6.72	FB 8.6	12	
6.73-7.00	FB 9.0	15	
7.01-7.39	FB 9.5	15	
7.40-7.54	FB 10	15	
7.55-8.41	FB 10.6	15	
8.42-8.91	FB 11.2	17.5	
8.92-9.16	FB 12.1	20	
9.17-10.0	FB 13.1	20	
10.1-10.3	FB 13.9	20	
10.4-11.4	FB 14.8	20	
11.5-11.8	FB 15.6	20	25
11.9-12.0	FB 16.4	20	25
Following Selections for Size M-1 Only			
11.5-11.8	FB 15.6	25	25
11.9-12.9	FB 16.4	25	25
13.0-13.4	FB 17.6	25	25
13.5-14.2	FB 18.4	30	30
14.3-15.1	FB 19.4	30	30
15.2-17.1	FB 21.1	30	30
17.2-18.0	FB 22.6	30	35
18.1-18.9	FB 23.6	30	40
19.0-19.7	FB 24.8	30	40
19.8-20.9	FB 26.7	30	40
21.0-21.9	FB 28.3	30	40
22.0-23.1	FB 29.6	30	40
23.2-24.3	FB 30.5	30	40
24.4-25.5	FB 32.6	30	40
25.6-26.0	FB 34.1	30	40

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TABLE 294

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		600V. Max.	250V. Max.
0.158-0.175	A .22	0.3	
0.176-0.194	A .23	0.3	
0.195-0.214	A .26	0.4	
0.215-0.239	A .27	0.4	
0.240-0.264	A .31	0.5	
0.265-0.291	A .34	0.5	
0.292-0.327	A .37	0.6	
0.328-0.359	A .39	0.6	
0.360-0.389	A .47	0.8	
0.39-0.43	A .49	0.8	
0.44-0.47	A .54	0.8	
0.48-0.52	A .59	1	
0.53-0.58	A .65	1.125	
0.59-0.64	A .71	1.25	
0.65-0.68	A .78	1.4	
0.69-0.77	A .86	1.4	
0.78-0.84	A .95	1.8	
0.85-0.93	A 1.02	1.8	
0.94-1.05	A 1.16	2	
1.06-1.13	A 1.25	2.25	
1.14-1.25	A 1.39	2.25	
1.26-1.33	A 1.54	2.8	
1.34-1.42	A 1.63	2.8	
1.43-1.52	A 1.75	3.2	
1.53-1.63	A 1.86	3.2	
1.64-1.75	A 1.99	3.5	
1.76-1.90	A 2.15	3.5	
1.91-2.13	A 2.31	4	
2.14-2.33	A 2.57	4.5	
2.34-2.73	A 2.81	5	
2.74-2.86	A 3.61	5.6	
2.87-3.14	A 3.95	6.25	
3.15-3.47	A 4.32	7	
3.48-3.83	A 4.79	7	
3.84-4.16	A 5.30	8	
4.17-4.43	A 5.78	9	
4.44-5.00	A 6.20	9	
5.01-5.16	A 6.99	10	
5.17-5.56	A 7.65	10	
5.57-6.22	A 8.38	10	12
6.23-6.89	A 9.25	10	12
6.90-7.00	A 9.85	10	12

TABLE 295

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		600V. Max.	250V. Max.
0.168-0.185	A .22	0.3	
0.186-0.205	A .23	0.4	
0.206-0.226	A .26	0.4	
0.227-0.251	A .27	0.5	
0.252-0.277	A .31	0.5	
0.278-0.306	A .34	0.5	
0.307-0.340	A .37	0.6	
0.341-0.375	A .39	0.6	
0.376-0.409	A .47	0.8	
0.41-0.45	A .49	0.8	
0.46-0.50	A .54	1	
0.51-0.55	A .59	1.125	
0.56-0.62	A .65	1.25	
0.63-0.67	A .71	1.4	
0.68-0.72	A .78	1.4	
0.73-0.81	A .86	1.6	
0.82-0.88	A .95	1.8	
0.89-0.97	A 1.02	2	
0.98-1.08	A 1.16	2	
1.09-1.18	A 1.25	2.25	
1.19-1.32	A 1.39	2.25	
1.33-1.40	A 1.54	2.8	
1.41-1.48	A 1.63	2.8	
1.49-1.60	A 1.75	3.2	
1.61-1.72	A 1.86	3.5	
1.73-1.84	A 1.99	3.5	
1.85-2.00	A 2.15	4	
2.01-2.22	A 2.31	4.5	
2.23-2.45	A 2.57	5	
2.46-2.82	A 2.81	5	
2.83-3.08	A 3.61	6.25	
3.09-3.39	A 3.95	6.25	
3.40-3.75	A 4.32	7	
3.76-4.16	A 4.79	8	
4.17-4.51	A 5.30	9	
4.52-4.83	A 5.78	10	
4.84-5.49	A 6.20	10	
5.50-5.67	A 6.99	10	12
5.68-6.16	A 7.65	10	12
6.17-6.75	A 8.38	10	12
6.76-7.00	A 9.25	10	12

TABLE 305

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
165-176	DD 112	175
177-191	DD 121	175
192-205	DD 128	200
206-219	DD 140	225
220-243	DD 150	225
244-279	DD 160	250
280-309	DD 185	300
310-327	DD 220	300
328-351	DD 240	350
352-369	DD 250	350
370-391	DD 265	400
392-431	DD 280	400
432-449	DD 300	400
450-487	DD 320	460
488-532	DD 340	400

TABLE 306

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
82.2-87.1	CC 64.3	90
87.2-93.7	CC 68.5	90
93.8-99.9	CC 74.6	100
100-109	CC 81.5	110
110-114	CC 87.7	110
115-123	CC 94.0	125
124-132	CC 103	125
133-144	CC 112	125
145-155	CC 121	150
156-161	CC 132	175
162-172	CC 143	175
173-187	CC 156	175
188-201	CC 167	200
202-225	CC 180	200
226-235	CC 196	200
236-247	CC 208	200
248-266	CC 219	200

TABLE 339

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J Fuses or L Fuses	All Fuses Except Class J or L
128-140	B 1.30	500	250
141-163	B 1.45	500	300
164-179	B 1.67	600	350
180-201	B 1.88	600	400
202-227	B 2.10	601	450
228-251	B 2.40	601	500
252-278	B 2.65	700	500
279-308	B 3.00	800	600
309-346	B 3.30	800	600
347-380	B 3.70	1000	600
381-426	B 4.15	1000	600
427-454	B 4.85	1200	600
455-489	B 5.50	1200	600
490-520	B 6.25	1200	600



SELECTION TABLES 340 thru 346

TABLE 340

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J Fuses or L Fuses	All Fuses Except Class J or L
133-148	B 1.30	500	250
149-174	B 1.45	500	300
175-195	B 1.67	600	350
196-219	B 1.88	600	400
220-239	B 2.10	601	450
240-271	B 2.40	700	500
272-308	B 2.65	800	600
309-348	B 3.00	800	600
349-397	B 3.30	1000	600
398-429	B 3.70	1000	600
430-495	B 4.15	1200	600
496-520	B 4.85	1200	600

TABLE 341

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J Fuses or L Fuses	All Fuses Except Class J or L
148-173	AR 1.68	500	300
174-189	AR 1.85	600	350
190-205	AR 2.04	600	400
206-222	AR 2.24	601	450
223-243	AR 2.46	601	500
244-261	AR 2.71	700	500
262-289	AR 2.98	700	500
290-324	AR 3.28	800	600
325-367	AR 3.62	800	600
368-389	AR 3.98	1000	600
390-404	AR 4.37	1000	600
405-451	AR 4.80	1200	600
452-495	AR 5.3	1200	600
496-520	AR 5.8	1200	600

TABLE 342

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J Fuses or L Fuses	All Fuses Except Class J or L
158-187	AR 1.68	600	350
188-206	AR 1.85	600	400
207-224	AR 2.04	601	450
225-244	AR 2.24	601	500
245-267	AR 2.46	700	500
268-289	AR 2.71	800	600
290-324	AR 2.98	800	600
325-361	AR 3.28	800	600
362-406	AR 3.62	1000	600
407-445	AR 3.98	1200	600
446-463	AR 4.37	1200	600
464-520	AR 4.80	1200	600

TABLE 343

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J Fuses or L Fuses	All Fuses Except Class J or L
146-169	AR 1.68	500	300
170-185	AR 1.85	600	350
186-201	AR 2.04	600	400
202-217	AR 2.24	601	450
218-236	AR 2.46	601	450
237-253	AR 2.71	700	500
254-279	AR 2.98	700	500
280-311	AR 3.28	800	600
312-353	AR 3.62	800	600
354-396	AR 3.98	1000	600
397-442	AR 4.37	1000	600
443-492	AR 4.80	1200	600
493-520	AR 5.3	1200	600

TABLE 344

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)		
		Each Winding Protected by its Own Set of Fuses		Both Windings Protected by a Common Set of Fuses
		Class J or L Fuses Only	All Fuses Except Class J or L	Class J or L Fuses Only
266-297	B 1.30	500	250	Class J fuse rating must not exceed 2.0 times motor full-load current.
298-349	B 1.45	500	300	
350-391	B 1.67	600	350	
392-439	B 1.88	600	400	Class L fuse must be 1200 Amp. or less and must not exceed 1.5 times motor full-load current.
440-479	B 2.10	601	450	
480-543	B 2.40	700	500	
544-617	B 2.65	800	600	
618-697	B 3.00	800	600	
698-795	B 3.30	1000	600	
796-859	B 3.70	1000	600	
860-991	B 4.15	1200	600	
992-1040	B 4.85	1200	600	

TABLE 345

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)		
		Each Winding Protected by its Own Set of Fuses		Both Windings Protected by a Common Set of Fuses
		Class J or L Fuses Only	All Fuses Except Class J or L	Class J or L Fuses Only
316-375	AR 1.68	600	350	Class J fuse rating must not exceed 2.0 times motor full-load current.
376-413	AR 1.85	600	400	
414-449	AR 2.04	601	450	
450-489	AR 2.24	601	500	Class L fuse must be 1200Amp. or less and must not exceed 1.5 times motor full-load current.
490-535	AR 2.46	700	500	
536-579	AR 2.71	800	600	
580-649	AR 2.98	800	600	
650-723	AR 3.28	800	600	
724-813	AR 3.62	1000	600	
814-891	AR 3.98	1200	600	
892-927	AR 4.37	1200	600	
928-1040	AR 4.80	1200	600	

TABLE 346

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J or L Fuses Only	All Fuses Except Class J or L
230-257	B 1.30	500	Fuse Rating Must be 600 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
258-302	B 1.45	500	
303-338	B 1.67	600	
339-380	B 1.88	600	
381-414	B 2.10	601	
415-470	B 2.40	700	
471-534	B 2.65	800	Not Suitable Above 521 Amp. Motor F.L.C.
535-603	B 3.00	800	
604-688	B 3.30	1000	
689-743	B 3.70	1000	
744-857	B 4.15	1200	
858-900	B 4.85	1200	

SELECTION TABLES 347 thru 355

TABLE 347

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J or L Fuses Only	All Fuses Except Class J or L
273-324	AR 1.68	600	Fuse Rating Must be 600 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
325-357	AR 1.85	600	
358-388	AR 2.04	601	
389-423	AR 2.24	601	Not Suitable Above 521 Amp. Motor F.L.C.
424-463	AR 2.46	700	
464-501	AR 2.71	800	
502-561	AR 2.98	800	
562-625	AR 3.28	800	
626-703	AR 3.62	1000	
704-771	AR 3.98	1200	
772-802	AR 4.37	1200	
803-900	AR 4.80	1200	

TABLE 354

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
0.30-0.32	B 0.44	0.6	
0.33-0.37	B 0.51	0.6	
0.38-0.39	B 0.57	0.8	
0.40-0.48	B 0.63	0.8	
0.49-0.57	B 0.71	1	
0.58-0.64	B 0.81	1.25	
0.65-0.70	B 0.92	1.4	
0.71-0.78	B 1.03	1.4	
0.79-0.87	B 1.16	1.6	
0.88-0.98	B 1.30	1.8	
0.99-1.13	B 1.45	2	
1.14-1.25	B 1.67	2.5	
1.26-1.40	B 1.88	2.8	
1.41-1.58	B 2.10	2.8	
1.59-1.79	B 2.40	3.5	
1.80-1.91	B 2.65	4	
1.92-2.20	B 3.00	4	
2.21-2.55	B 3.30	4.5	
2.56-2.87	B 3.70	5.6	
2.88-3.24	B 4.15	6.25	
3.25-3.48	B 4.85	7	
3.49-3.85	B 5.50	7	
3.86-4.10	B 6.25	8	
4.11-4.79	B 6.90	9	
4.80-5.31	B 7.70	10	
5.32-5.65	B 8.20	10	
5.66-6.35	B 9.10	12	
6.36-7.31	B 10.2	12	
7.32-8.34	B 11.5	15	
8.35-8.84	B 12.8	17.5	
8.85-9.47	B 14	17.5	
9.48-10.4	B 15.5	20	
10.5-11.5	B 17.5	20	
		600V. Max.	250V. Max.
11.6-12.0	B 19.5	20	25
Following Selections for Size M-1 Only			
11.6-12.4	B 19.5	25	25
12.5-14.0	B 22	25	25
14.1-15.8	B 25	30	30
15.9-17.8	B 28.0	30	35
17.9-19.7	B 32	30	40
19.8-22.4	B 36	30	40
22.5-25.1	B 40	30	40
25.2-26.0	B 45	30	40

TABLE 355

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
.34-.38	B 0.44	0.6	
.39-.43	B 0.51	0.8	
.44-.47	B 0.57	0.8	
.48-.53	B 0.63	1	
.54-.60	B 0.71	1.125	
.61-.68	B 0.81	1.25	
.69-.76	B 0.92	1.4	
.77-.86	B 1.03	1.6	
.87-.97	B 1.16	1.8	
.98-1.07	B 1.30	2	
1.08-1.23	B 1.45	2.25	
1.24-1.39	B 1.67	2.5	
1.40-1.55	B 1.88	2.8	
1.56-1.77	B 2.10	3.5	
1.78-1.96	B 2.40	4	
1.97-2.15	B 2.65	4	
2.16-2.41	B 3.00	4.5	
2.42-2.71	B 3.30	5	
2.72-3.03	B 3.70	5.6	
3.04-3.53	B 4.15	6.25	
3.54-4.01	B 4.85	7	
4.02-4.56	B 5.50	9	
4.57-5.03	B 6.25	10	
5.04-5.59	B 6.90	10	
5.60-5.95	B 7.70	12	
5.96-6.58	B 8.20	12	
6.59-7.31	B 9.10	12	
7.32-8.15	B 10.2	15	
8.16-9.13	B 11.5	17.5	
9.14-9.91	B 12.8	20	
9.92-10.7	B 14	20	
10.8-12.1	B 15.5	20	
12.2-13.5	B 17.5	25	
13.6-15.1	B 19.5	30	
15.2-17.0	B 22	30	
		600V. Max.	250V. Max.
17.1-18.9	B 25	30	35
19.0-21.5	B 28.0	30	40
21.6-24.0	B 32	30	40
24.1-26.0	B 36	30	40

TABLE 352

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
0.29-0.32	B 0.44	0.6	
0.33-0.36	B 0.51	0.6	
0.37-0.39	B 0.57	0.8	
0.40-0.47	B 0.63	0.8	
0.48-0.56	B 0.71	1	
0.57-0.63	B 0.81	1.25	
0.64-0.69	B 0.92	1.4	
0.70-0.77	B 1.03	1.4	
0.78-0.86	B 1.16	1.6	
0.87-0.96	B 1.30	1.8	
0.97-1.11	B 1.45	2	
1.12-1.23	B 1.67	2.5	
1.24-1.37	B 1.88	2.5	
1.38-1.55	B 2.10	2.8	
1.56-1.75	B 2.40	3.5	
1.76-1.92	B 2.65	3.5	
1.93-2.16	B 3.00	4	
2.17-2.50	B 3.30	4.5	
2.51-2.81	B 3.70	5.6	
2.82-3.16	B 4.15	6.25	
3.17-3.40	B 4.85	7	
3.41-3.76	B 5.50	7	
3.77-4.00	B 6.25	8	
4.01-4.68	B 6.90	9	
4.69-5.18	B 7.70	10	
5.19-5.51	B 8.20	10	
5.52-6.19	B 9.10	12	
6.20-7.12	B 10.2	12	
7.13-8.15	B 11.5	15	
8.16-8.60	B 12.8	17.5	
8.61-9.21	B 14	17.5	
9.22-10.1	B 15.5	20	
10.2-11.2	B 17.5	20	
		600V. Max.	250V. Max.
11.3-12.0	B 19.5	20	25
Following Selections for Size M-1 Only			
11.3-12.1	B 19.5	25	25
12.2-13.6	B 22	25	25
13.7-15.3	B 25	30	30
15.4-17.3	B 28.0	30	30
17.4-19.1	B 32	30	35
19.2-21.7	B 36	30	40
21.8-24.2	B 40	30	40
24.3-26.0	B 45	30	40



SELECTION TABLES 356 thru 361

TABLE 356

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
3.46-3.90	B 4.85	7
3.91-4.44	B 5.50	8
4.45-4.91	B 6.25	10
4.92-5.51	B 6.90	10
5.52-5.84	B 7.70	12
5.85-6.54	B 8.20	12
6.55-7.33	B 9.10	12
7.34-8.31	B 10.2	15
8.32-9.22	B 11.5	17.5
9.23-10.0	B 12.8	20
10.1-11.2	B 14	20
11.3-12.5	B 15.5	25
12.6-14.2	B 17.5	25
14.3-16.1	B 19.5	30
16.2-18.4	B 22	35
18.5-20.5	B 25	40
20.6-23.2	B 28.0	45
23.3-26.6	B 32	50
26.7-29.6	B 36	60
29.7-33.5	B 40	60
33.6-37.2	B 45	60
37.3-41.5	B 50	60
41.6-45.0	B 56	60

TABLE 358 Continued

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		600V. Max.	250V. Max.
9.94-10.6	B 7.70	10	
10.7-11.8	B 8.20	12	
11.9-13.5	B 9.10	12	
13.6-15.1	B 10.2	15	
15.2-15.6	B 11.5	15	
15.7-16.1	B 12.8	17.5	
16.2-19.0	B 14	17.5	
19.1-20.3	B 15.5	20	
20.4-22.7	B 17.5	20	
22.8-26.3	B 19.5	25	
26.4-29.9	B 22	25	
30.0-32.3	B 25	30	
32.4-35.7	B 28.0	30	35
35.8-38.3	B 32	30	40
38.4-44.9	B 36	30	40
45.0-47.1	B 40	30	40
47.2-52.0	B 45	30	40

TABLE 360

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		600V. Max.	250V. Max.
27.2-29.1	CC 20.9	30	
29.2-31.1	CC 22.8	30	
31.2-34.9	CC 24.6	35	
35.0-37.1	CC 26.3	35	
37.2-39.9	CC 28.8	40	
40.0-43.1	CC 31.0	45	
43.2-45.9	CC 33.3	45	
46.0-49.1	CC 36.4	50	
49.2-52.7	CC 39.6	50	
52.8-56.5	CC 42.7	50	
56.6-60.1	CC 46.6	60	
60.2-64.7	CC 50.1	60	
64.8-69.9	CC 54.5	70	
70.0-75.3	CC 59.4	70	
75.4-80.1	CC 64.3	80	
80.2-85.7	CC 68.5	90	
85.8-90.7	CC 74.6	90	
90.8-98.3	CC 81.5	90	100
98.4-106	CC 87.7	100	110
107-114	CC 94.0	100	110
115-122	CC 103	100	125
123-126	CC 112	100	125
127-132	CC 121	100	125
133-137	CC 132	100	125
138-141	CC 143	100	125
142-147	CC 156	100	125
148-152	CC 167	100	125
153-156	CC 180	100	125
157-172	CC 196	100	125

TABLE 358

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.62-0.65	B 0.44	0.6
0.66-0.73	B 0.51	0.6
0.74-0.83	B 0.57	0.8
0.84-0.99	B 0.63	0.8
1.00-1.09	B 0.71	1.125
1.10-1.23	B 0.81	1.125
1.24-1.35	B 0.92	1.25
1.36-1.53	B 1.03	1.4
1.54-1.75	B 1.16	1.6
1.76-1.97	B 1.30	1.8
1.98-2.11	B 1.45	2
2.12-2.51	B 1.67	2.25
2.52-2.67	B 1.88	2.8
2.68-3.13	B 2.10	2.8
3.14-3.43	B 2.40	3.5
3.44-3.95	B 2.65	3.5
3.96-4.31	B 3.00	4
4.32-4.85	B 3.30	4.5
4.86-5.57	B 3.70	5
5.58-6.57	B 4.15	6.25
6.58-7.77	B 4.85	7
7.78-8.27	B 5.50	8
8.28-8.87	B 6.25	9
8.88-9.93	B 6.90	9

TABLE 359

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
7.58-8.29	B 5.50	8
8.30-8.89	B 6.25	9
8.90-10.4	B 6.90	10
10.5-10.5	B 7.70	10
10.6-11.9	B 8.20	10
12.0-13.6	B 9.10	12
13.7-15.3	B 10.2	15
15.4-15.8	B 11.5	15
15.9-16.9	B 12.8	17.5
17.0-19.9	B 14	17.5
20.0-21.7	B 15.5	20
21.8-24.7	B 17.5	20
24.8-25.9	B 19.5	25
26.0-30.3	B 22	25
30.4-33.5	B 25	30
33.6-35.9	B 28.0	35
36.0-40.3	B 32	40
40.4-47.7	B 36	45
47.8-51.7	B 40	50
51.8-56.7	B 45	50
56.8-59.3	B 50	60
59.4-64.3	B 56	60
64.4-68.9	B 62	60
69.0-76.7	B 70	60
76.8-79.9	B 79	60
80.0-90.0	B 88	60

TABLE 361

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J or L Fuses Only	All Fuses Except Class J or L
256-281	B 1.30	500	250
282-327	B 1.45	500	300
328-359	B 1.67	600	350
360-403	B 1.88	600	400
404-455	B 2.10	601	450
456-503	B 2.40	601	500
504-557	B 2.65	700	500
558-617	B 3.00	800	600
618-693	B 3.30	800	600
694-761	B 3.70	1000	600
762-853	B 4.15	1000	600
854-909	B 4.85	1200	600
910-979	B 5.50	1200	600
980-1040	B 6.25	1200	600

(Cont'd)

SELECTION TABLES 362 thru 371

TABLE 362

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
3.18-3.40	B 4.85	7
3.41-3.76	B 5.50	7
3.77-4.00	B 6.25	8
4.01-4.57	B 6.90	9
4.58-5.03	B 7.70	10
5.04-5.32	B 8.20	10
5.33-5.97	B 9.10	10
5.98-6.88	B 10.2	12
6.89-7.82	B 11.5	15
7.83-8.47	B 12.8	17.5
8.48-9.15	B 14	17.5
9.16-10.1	B 15.5	20
10.2-11.2	B 17.2	20
11.3-12.0	B 19.5	25
12.1-13.6	B 22	25
13.7-15.2	B 25	30
15.3-17.1	B 28.0	30
17.2-19.0	B 32	35
19.1-21.5	B 36	40
21.6-24.1	B 40	45
24.2-27.0	B 45	50
27.1-28.7	B 50	60
28.8-30.4	B 56	60
30.5-32.2	B 62	60
32.3-35.4	B 70	60
35.5-38.2	B 79	60
38.3-45.0	B 88	60

TABLE 363

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
3.28-3.51	B 4.85	7
3.52-3.89	B 5.50	7
3.90-4.14	B 6.25	8
4.15-4.73	B 6.90	9
4.74-5.22	B 7.70	10
5.23-5.53	B 8.20	10
5.54-6.21	B 9.10	12
6.22-7.17	B 10.2	12
7.18-8.19	B 11.5	15
8.20-8.90	B 12.8	17.5
8.91-9.57	B 14	20
9.58-10.6	B 15.5	20
10.7-11.8	B 17.5	20
11.9-12.7	B 19.5	25
12.8-14.4	B 22	25
14.5-16.1	B 25	30
16.2-18.2	B 28.0	35
18.3-20.2	B 32	40
20.3-22.8	B 36	45
22.9-25.6	B 40	50
25.7-28.8	B 45	50
28.9-30.6	B 50	60
30.7-32.4	B 56	60
32.5-34.6	B 62	60
34.7-38.6	B 70	60
38.7-45.0	B 79	60

TABLE 365

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
27.1-30.0	E 67	60	
30.1-33.2	E 69	60	
33.3-35.7	E 70	70	
35.8-39.4	E 71	80	
39.5-43.4	E 72	80	
43.5-46.9	E 73	90	
47.0-51.5	E 74	100	
51.6-57.0	E 76	100	110
57.1-62.8	E 77	100	125
62.9-69.1	E 78	100	125
69.2-75.0	E 79	100	125
75.1-83.3	E 80	100	125

TABLE 367

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
50.-55.9	E 88	110
56.-60.9	E 89	125
61.-65.9	E 91	125
66.-69.9	E 92	125
70.-75.9	E 93	150
76.-81.9	E 94	150
82.-86.9	E 96	175
87.-92.9	E 97	175
93.-97.9	E 98	200
98.-107.9	E 99	200
108.-113.9	E 101	200
114.-125.9	E 102	200

TABLE 371

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.37-0.39	AR .45	0.8
0.40-0.42	AR .49	0.8
0.43-0.46	AR .54	0.8
0.47-0.50	AR .59	1
0.51-0.54	AR .65	1.125
0.55-0.59	AR .71	1.125
0.60-0.65	AR .78	1.25
0.66-0.71	AR .86	1.4
0.72-0.78	AR .95	1.6
0.79-0.86	AR 1.05	1.6
0.87-0.94	AR 1.15	1.8
0.95-1.04	AR 1.26	2
1.05-1.14	AR 1.39	2.25
1.15-1.25	AR 1.53	2.5
1.26-1.42	AR 1.68	2.8
1.43-1.62	AR 1.85	3.2
1.63-1.75	AR 2.04	3.5
1.76-1.91	AR 2.24	3.5
1.92-2.07	AR 2.46	4
2.08-2.25	AR 2.71	4
2.26-2.47	AR 2.98	4
2.48-2.73	AR 3.28	5
2.74-2.99	AR 3.62	5.6
3.00-3.31	AR 3.98	6.25
3.32-3.71	AR 4.37	7
3.72-4.15	AR 4.80	7
4.16-4.65	AR 5.3	9
4.66-5.11	AR 5.8	10
5.12-5.68	AR 6.4	10
5.69-6.24	AR 7.0	12
6.25-7.15	AR 7.7	12
7.16-7.84	AR 8.5	15
7.85-8.56	AR 9.3	17.5
8.57-9.40	AR 10.2	17.5
9.41-10.2	AR 11.2	20
10.3-10.7	AR 12.4	20
10.8-12.2	AR 13.6	20
12.3-14.1	AR 15.4	25
14.2-15.9	AR 17.6	25
16.0-18.0	AR 20.5	25
Following Selections for Size 1 Only		
14.2-15.9	AR 17.6	30
16.0-18.1	AR 20.5	35
18.2-20.8	AR 23	40
20.9-23.6	AR 27	40
23.7-26.0	AR 30	40



SELECTION TABLES 373 thru 379

TABLE 373

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.38-0.40	AR .45	0.8
0.41-0.43	AR .49	0.8
0.44-0.48	AR .54	0.8
0.49-0.52	AR .59	1
0.53-0.56	AR .65	1.125
0.57-0.61	AR .71	1.25
0.62-0.67	AR .78	1.25
0.68-0.73	AR .86	1.4
0.74-0.81	AR .95	1.6
0.82-0.89	AR 1.05	1.8
0.90-0.97	AR 1.15	2
0.98-1.07	AR 1.26	2
1.08-1.17	AR 1.39	2.25
1.18-1.31	AR 1.53	2.5
1.32-1.49	AR 1.68	2.8
1.50-1.69	AR 1.85	3.2
1.70-1.83	AR 2.04	3.5
1.84-2.00	AR 2.24	4
2.01-2.17	AR 2.46	4
2.18-2.35	AR 2.71	4
2.36-2.60	AR 2.98	4
2.61-2.87	AR 3.28	5.6
2.88-3.14	AR 3.62	6.25
3.15-3.47	AR 3.98	6.25
3.48-3.90	AR 4.37	7
3.91-4.36	AR 4.80	7
4.37-4.88	AR 5.3	9
4.89-5.37	AR 5.8	10
5.38-5.97	AR 6.4	12
5.98-6.55	AR 7.0	12
6.56-7.50	AR 7.7	12
7.51-8.23	AR 8.5	15
8.24-8.99	AR 9.3	17.5
9.00-9.86	AR 10.2	20
9.87-10.7	AR 11.2	20
10.8-11.2	AR 12.4	20
11.3-12.8	AR 13.6	25
12.9-14.8	AR 15.4	25
14.9-16.7	AR 17.6	25
16.8-18.0	AR 20.5	25
Following Selections for Size 1 Only		
14.9-16.7	AR 17.6	30
16.8-19.0	AR 20.5	35
19.1-22.0	AR 23	40
22.1-24.9	AR 27	40
25.0-26.0	AR 30	40

TABLE 374

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.28-0.30	AR .45	0.6
0.31-0.33	AR .49	0.6
0.34-0.36	AR .54	0.6
0.37-0.39	AR .59	0.8
0.40-0.42	AR .65	0.8
0.43-0.46	AR .71	0.8
0.47-0.50	AR .78	1
0.51-0.52	AR .86	1.125
0.53-0.56	AR .95	1.125
0.57-0.60	AR 1.05	1.25
0.61-0.66	AR 1.15	1.25
0.67-0.73	AR 1.26	1.4
0.74-0.81	AR 1.39	1.6
0.82-0.90	AR 1.53	1.8
0.91-1.05	AR 1.68	2
1.06-1.15	AR 1.85	2.25
1.16-1.25	AR 2.04	2.5
1.26-1.35	AR 2.24	2.8
1.36-1.47	AR 2.46	2.8
1.48-1.58	AR 2.71	3.2
1.59-1.74	AR 2.98	3.5
1.75-1.94	AR 3.28	3.5
1.95-2.20	AR 3.62	4
2.21-2.47	AR 3.98	4.5
2.48-2.76	AR 4.37	5
2.77-3.07	AR 4.80	5.6
3.08-3.45	AR 5.3	6.25
3.46-3.81	AR 5.8	7
3.82-4.20	AR 6.4	8
4.21-4.65	AR 7.0	9
4.66-5.29	AR 7.7	10
5.30-5.84	AR 8.5	10
5.85-6.27	AR 9.3	12
6.28-6.97	AR 10.2	12
6.98-7.59	AR 11.2	15
7.60-7.89	AR 12.4	15
7.90-8.95	AR 13.6	17.5
8.96-10.3	AR 15.4	20
10.4-11.7	AR 17.6	20
11.8-13.3	AR 20.5	25
13.4-15.2	AR 23	30
15.3-17.2	AR 27	30
17.3-19.7	AR 30	30
19.8-22.4	AR 35	30
22.5-26.0	AR 40	30
		600V. Max. 250V. Max.
		30 35
		30 40
		30 40

TABLE 379

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
2.26-2.51	FB 3.33	5
2.52-2.82	FB 3.71	5.6
2.82-3.09	FB 4.1	6.25
3.10-3.30	FB 4.5	6.25
3.31-3.69	FB 4.75	7
3.70-4.27	FB 5.3	8
4.28-4.72	FB 6.1	9
4.73-5.25	FB 6.75	10
5.26-5.53	FB 7.45	10
5.54-5.81	FB 7.8	12
5.82-6.14	FB 8.21	12
6.15-6.44	FB 8.6	12
6.45-6.81	FB 9.0	12
6.82-7.19	FB 9.5	15
7.20-7.59	FB 10	15
7.60-7.99	FB 10.6	15
8.00-8.17	FB 11.2	17.5
8.18-8.74	FB 12.1	17.5
8.75-9.31	FB 13.1	17.5
9.32-9.94	FB 13.9	20
9.95-10.5	FB 14.8	20
10.6-11.1	FB 15.6	20
11.2-11.9	FB 16.4	25
12.0-12.4	FB 17.6	25
12.5-13.1	FB 18.4	25
13.2-14.3	FB 19.4	25
14.4-15.3	FB 21.1	25
15.4-15.9	FB 22.6	25
16.0-18.0	FB 23.6	25
Following Selections for Size 1 Only		
14.4-15.3	FB 21.1	30
15.4-15.9	FB 22.6	30
16.0-16.9	FB 23.6	35
17.0-18.3	FB 24.8	35
18.4-19.5	FB 26.7	40
19.6-20.5	FB 28.3	40
20.6-21.1	FB 29.6	40
21.2-22.6	FB 30.5	40
22.7-23.7	FB 32.6	40
23.8-24.3	FB 34.1	40
24.4-26.0	FB 35	40

SELECTION TABLES 380 thru 385

TABLE 380

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
2.23-2.47	FB 3.33	5
2.48-2.76	FB 3.71	5
2.77-3.04	FB 4.1	5.6
3.05-3.24	FB 4.5	6.25
3.25-3.61	FB 4.75	7
3.62-4.19	FB 5.3	8
4.20-4.62	FB 6.1	9
4.63-5.14	FB 6.75	10
5.15-5.39	FB 7.45	10
5.40-5.69	FB 7.8	12
5.70-5.99	FB 8.21	12
6.00-6.29	FB 8.6	12
6.30-6.64	FB 9.0	12
6.65-6.99	FB 9.5	12
7.00-7.39	FB 10	15
7.40-7.79	FB 10.6	15
7.80-7.94	FB 11.2	17.5
7.95-8.49	FB 12.1	17.5
8.50-8.99	FB 13.1	17.5
9.00-9.59	FB 13.9	20
9.60-10.1	FB 14.8	20
10.2-10.6	FB 15.6	20
10.7-11.3	FB 16.4	20
11.4-11.9	FB 17.6	25
12.0-12.6	FB 18.4	25
12.7-13.8	FB 19.4	25
13.9-14.7	FB 21.1	25
14.8-15.2	FB 22.6	25
15.3-16.2	FB 23.6	25
16.3-18.0	FB 24.8	25
Following Selections for Size 1 Only		
13.9-14.7	FB 21.1	30
14.8-15.2	FB 22.6	30
15.3-16.2	FB 23.6	30
16.3-17.4	FB 24.8	35
17.5-18.5	FB 26.7	35
18.6-19.6	FB 28.3	40
19.7-20.2	FB 29.6	40
20.3-21.5	FB 30.5	40
21.6-22.4	FB 32.6	40
22.5-23.2	FB 34.1	40
23.3-24.3	FB 35	40
24.4-25.4	FB 36.6	40
25.5-26.0	FB 38.3	40

TABLE 381

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.28-0.30	AR .45	0.6
0.31-0.33	AR .49	0.6
0.34-0.36	AR .54	0.6
0.37-0.39	AR .59	0.8
0.40-0.42	AR .65	0.8
0.43-0.46	AR .71	0.8
0.47-0.50	AR .78	1
0.51-0.52	AR .86	1.125
0.53-0.56	AR .95	1.125
0.57-0.60	AR 1.05	1.25
0.61-0.66	AR 1.15	1.25
0.67-0.73	AR 1.26	1.4
0.74-0.81	AR 1.39	1.6
0.82-0.90	AR 1.53	1.8
0.91-1.05	AR 1.68	2
1.06-1.15	AR 1.85	2.25
1.16-1.25	AR 2.04	2.5
1.26-1.35	AR 2.24	2.8
1.36-1.47	AR 2.46	2.8
1.48-1.58	AR 2.71	3.2
1.59-1.74	AR 2.98	3.5
1.75-1.94	AR 3.28	3.5
1.95-2.20	AR 3.62	4
2.21-2.47	AR 3.98	4.5
2.48-2.76	AR 4.37	5
2.77-3.07	AR 4.80	5.6
3.08-3.45	AR 5.3	6.25
3.46-3.81	AR 5.8	7
3.82-4.20	AR 6.4	8
4.21-4.65	AR 7.0	9
4.66-5.29	AR 7.7	10
5.30-5.84	AR 8.5	10
		600V. Max. 250V. Max.
5.85-6.27	AR 9.3	10 12
6.28-7.00	AR 10.2	10 12

TABLE 383 Continued

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
1.59-1.76	AR 2.46	3.5
1.77-1.85	AR 2.71	3.5
1.86-2.08	AR 2.98	4
2.09-2.27	AR 3.28	4.5
2.28-2.51	AR 3.62	5
2.52-2.90	AR 3.98	5.6
2.91-3.23	AR 4.37	6.25
3.24-3.58	AR 4.80	7
3.59-4.02	AR 5.3	8
4.03-4.43	AR 5.8	9
4.44-4.86	AR 6.4	9
4.87-5.37	AR 7.0	10
		600V. Max. 250V. Max.
5.38-6.12	AR 7.7	10 12
6.13-6.65	AR 8.5	10 12
6.66-7.00	AR 9.3	10 12

TABLE 385

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.38-0.40	AR .45	0.8
0.41-0.43	AR .49	0.8
0.44-0.48	AR .54	0.8
0.49-0.52	AR .59	1
0.53-0.56	AR .65	1.125
0.57-0.61	AR .71	1.25
0.62-0.67	AR .78	1.25
0.68-0.73	AR .86	1.4
0.74-0.81	AR .95	1.6
0.82-0.89	AR 1.05	1.8
0.90-0.97	AR 1.15	2
0.98-1.07	AR 1.26	2
1.08-1.17	AR 1.39	2.25
1.18-1.31	AR 1.53	2.5
1.32-1.49	AR 1.68	2.8
1.50-1.69	AR 1.85	3.2
1.70-1.83	AR 2.04	3.5
1.84-2.00	AR 2.24	4
2.01-2.17	AR 2.46	4
2.18-2.35	AR 2.71	4
2.36-2.60	AR 2.98	4
2.61-2.87	AR 3.28	5.6
2.88-3.14	AR 3.62	6.25
3.15-3.47	AR 3.98	6.25
3.48-3.90	AR 4.37	7
3.91-4.36	AR 4.80	7
4.37-4.88	AR 5.3	9
4.89-5.37	AR 5.8	10
5.38-5.97	AR 6.4	12
5.98-6.55	AR 7.0	12
6.56-7.50	AR 7.7	12
7.51-8.23	AR 8.5	12
8.24-9.00	AR 9.3	12

TABLE 383

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.31-0.33	AR .45	0.6
0.34-0.36	AR .49	0.6
0.37-0.39	AR .54	0.8
0.40-0.43	AR .59	0.8
0.44-0.47	AR .65	0.8
0.48-0.51	AR .71	1
0.52-0.56	AR .78	1.125
0.57-0.58	AR .86	1.25
0.59-0.64	AR .95	1.25
0.65-0.70	AR 1.05	1.4
0.71-0.77	AR 1.15	1.4
0.78-0.85	AR 1.26	1.6
0.86-0.94	AR 1.39	1.8
0.95-1.03	AR 1.53	2
1.04-1.22	AR 1.68	2.25
1.23-1.34	AR 1.85	2.5
1.35-1.46	AR 2.04	2.8
1.47-1.58	AR 2.24	3.2

(Cont'd)



SELECTION TABLES 388 thru 390

TABLE 388

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.29-0.31	B 0.44	0.6
0.32-0.34	B 0.51	0.6
0.35-0.38	B 0.57	0.6
0.39-0.45	B 0.63	0.8
0.46-0.54	B 0.71	1
0.55-0.61	B 0.81	1.125
0.62-0.66	B 0.92	1.25
0.67-0.73	B 1.03	1.4
0.74-0.81	B 1.16	1.6
0.82-0.94	B 1.30	1.8
0.95-1.05	B 1.45	2
1.06-1.22	B 1.67	2.25
1.23-1.34	B 1.88	2.5
1.35-1.51	B 2.10	2.8
1.52-1.71	B 2.40	3.2
1.72-1.93	B 2.65	3.5
1.94-2.14	B 3.00	4
2.15-2.40	B 3.30	4.5
2.41-2.72	B 3.70	5
2.73-3.15	B 4.15	5.6
3.16-3.55	B 4.85	7
3.56-4.00	B 5.50	8
4.01-4.40	B 6.25	9
4.41-4.88	B 6.90	9
4.89-5.19	B 7.70	10
5.20-5.73	B 8.20	10
5.74-6.39	B 9.10	12
6.40-7.13	B 10.2	12
7.14-7.90	B 11.5	15
7.91-8.55	B 12.8	17.5
8.56-9.53	B 14	17.5
9.54-10.6	B 15.5	20
10.7-11.8	B 17.5	20
11.9-13.2	B 19.5	25
13.3-14.9	B 22	25
15.0-16.6	B 25	25
16.7-18.0	B 28.0	25
Following Selections for Size 1 Only		
15.0-16.6	B 25	30
16.7-18.9	B 28.0	35
19.0-21.2	B 32	40
21.3-23.0	B 36	40
23.1-25.5	B 40	40
25.6-26.0	B 45	40

TABLE 389

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.28-0.30	B 0.44	0.6
0.31-0.34	B 0.51	0.6
0.35-0.37	B 0.57	0.6
0.38-0.44	B 0.63	0.8
0.45-0.53	B 0.71	1
0.54-0.59	B 0.81	1.125
0.60-0.64	B 0.92	1.25
0.65-0.72	B 1.03	1.4
0.73-0.80	B 1.16	1.6
0.81-0.90	B 1.30	1.8
0.91-1.03	B 1.45	2
1.04-1.14	B 1.67	2.25
1.15-1.27	B 1.88	2.5
1.28-1.43	B 2.10	2.8
1.44-1.62	B 2.40	3.2
1.63-1.77	B 2.65	3.5
1.78-1.97	B 3.00	4
1.98-2.32	B 3.30	4
2.33-2.51	B 3.70	5
2.52-2.99	B 4.15	5.6
3.00-3.42	B 4.85	6.25
3.43-3.75	B 5.50	7
3.76-3.98	B 6.25	8
3.99-4.48	B 6.90	8
4.49-4.93	B 7.70	10
4.94-5.21	B 8.20	10
5.22-5.84	B 9.10	10
5.85-6.67	B 10.2	12
6.68-7.54	B 11.5	15
7.55-8.14	B 12.8	15
8.15-8.72	B 14	17.5
8.73-9.66	B 15.5	17.5
9.67-10.5	B 17.5	20
10.6-11.3	B 19.5	20
11.4-12.0	B 22	20
Following Selections for Size 1 Only		
11.4-12.7	B 22	25
12.8-14.1	B 25	25
14.2-15.9	B 28.0	30
16.0-17.5	B 32	30
17.6-19.7	B 36	30
19.8-21.9	B 40	30
22.0-24.4	B 45	30
24.5-26.0	B 50	30

TABLE 390

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.31-0.33	B 0.44	0.6
0.34-0.36	B 0.51	0.6
0.37-0.40	B 0.57	0.8
0.41-0.48	B 0.63	0.8
0.49-0.57	B 0.71	1
0.58-0.64	B 0.81	1.25
0.65-0.70	B 0.92	1.4
0.71-0.77	B 1.03	1.4
0.78-0.85	B 1.16	1.6
0.86-0.99	B 1.30	1.8
1.00-1.10	B 1.45	2.25
1.11-1.28	B 1.67	2.25
1.29-1.41	B 1.88	2.8
1.42-1.58	B 2.10	2.8
1.59-1.80	B 2.40	3.5
1.81-2.03	B 2.65	4
2.04-2.25	B 3.00	4.5
2.26-2.51	B 3.30	5
2.52-2.83	B 3.70	5.6
2.84-3.29	B 4.15	6.25
3.30-3.75	B 4.85	7
3.76-4.22	B 5.50	8
4.23-4.65	B 6.25	9
4.66-5.16	B 6.90	10
5.17-5.53	B 7.70	10
5.54-6.09	B 8.20	12
6.10-6.80	B 9.10	12
6.81-7.60	B 10.2	15
7.61-8.35	B 11.5	15
8.36-9.04	B 12.8	17.5
9.05-9.99	B 14	20
10.0-11.1	B 15.5	20
11.2-12.3	B 17.5	25
12.4-13.7	B 19.5	25
13.8-15.4	B 22	25
15.5-18.0	B 25	25
Following Selections for Size 1 Only		
13.8-15.4	B 22	30
15.5-17.2	B 25	30
17.3-19.4	B 28.0	35
19.5-21.7	B 32	40
21.8-23.9	B 36	40
24.0-26.0	B 40	40

SELECTION TABLES 391 thru 448

TABLE 391

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		600V. Max.	250V. Max.
0.29-0.31 0.32-0.36 0.37-0.38	B 0.44 B 0.51 B 0.57	0.6 0.6 0.8	
0.39-0.46 0.47-0.55 0.56-0.61	B 0.63 B 0.71 B 0.81	0.8 1 1.25	
0.62-0.66 0.67-0.75 0.76-0.83	B 0.92 B 1.03 B 1.16	1.25 1.4 1.6	
0.84-0.93 0.94-1.06 1.07-1.18	B 1.30 B 1.45 B 1.67	1.8 2 2.25	
1.19-1.31 1.32-1.47 1.48-1.67	B 1.88 B 2.10 B 2.40	2.5 2.8 3.2	
1.68-1.83 1.84-2.04 2.05-2.38	B 2.65 B 3.00 B 3.30	3.5 4 4.5	
2.39-2.60 2.61-3.13 3.14-3.59	B 3.70 B 4.15 B 4.85	5 5.6 7	
3.60-3.94 3.95-4.19 4.20-4.72	B 5.50 B 6.25 B 6.90	8 8 9	
4.73-5.21 5.22-5.51 5.52-6.17	B 7.70 B 8.20 B 9.10	10 10 12	
6.18-7.07 7.08-8.05 8.06-8.69	B 10.2 B 11.5 B 12.8	12 15 17.5	
8.70-9.32 9.33-10.2 10.3-11.3	B 14 B 15.5 B 17.5	17.5 20 20	
11.4-12.0	B 19.5	20	25
Following Selections for Size 1 Only			
11.4-12.1 12.2-13.7 13.8-15.2	B 19.5 B 22 B 25	25 25 30	25 25 30
15.3-17.2 17.3-18.9 19.0-21.4	B 28.0 B 32 B 36	30 30 30	30 35 40
21.5-23.7 23.8-26.0	B 40 B 45	30 30	40 40

TABLE 394

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.31-0.33 0.34-0.36 0.37-0.40	B 0.44 B 0.51 B 0.57	0.6 0.6 0.8
0.41-0.48 0.49-0.57 0.58-0.64	B 0.63 B 0.71 B 0.81	0.8 1 1.25
0.65-0.70 0.71-0.77 0.78-0.85	B 0.92 B 1.03 B 1.16	1.4 1.4 1.6
0.86-0.99 1.00-1.10 1.11-1.28	B 1.30 B 1.45 B 1.67	1.8 2.25 2.25
1.29-1.41 1.42-1.58 1.59-1.80	B 1.88 B 2.10 B 2.40	2.8 2.8 3.5
1.81-2.03 2.04-2.25 2.26-2.51	B 2.65 B 3.00 B 3.30	4 4.5 5
2.52-2.83 2.84-3.29 3.30-3.75	B 3.70 B 4.15 B 4.85	5.6 6.25 7
3.76-4.22 4.23-4.65 4.66-5.16	B 5.50 B 6.25 B 6.90	8 9 10
5.17-5.53 5.54-6.09 6.10-6.80	B 7.70 B 8.20 B 9.10	10 12 12
6.81-7.60 7.61-8.35 8.36-9.00	B 10.2 B 11.5 B 12.8	12 12 12

TABLE 395

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		600V. Max.	250V. Max.
0.29-0.31 0.32-0.36 0.37-0.38	B 0.44 B 0.51 B 0.57	0.6 0.6 0.8	
0.39-0.46 0.47-0.55 0.56-0.61	B 0.63 B 0.71 B 0.81	0.8 1 1.25	
0.62-0.66 0.67-0.75 0.76-0.83	B 0.92 B 1.03 B 1.16	1.25 1.4 1.6	
0.84-0.93 0.94-1.06 1.07-1.18	B 1.30 B 1.45 B 1.67	1.8 2 2.25	
1.19-1.31 1.32-1.47 1.48-1.67	B 1.88 B 2.10 B 2.40	2.5 2.8 3.2	
1.68-1.83 1.84-2.04 2.05-2.38	B 2.65 B 3.00 B 3.30	3.5 4 4.5	
2.39-2.60 2.61-3.13 3.14-3.59	B 3.70 B 4.15 B 4.85	5 5.6 7	
3.60-3.94 3.95-4.19 4.20-4.72	B 5.50 B 6.25 B 6.90	8 8 9	
4.73-5.21 5.22-5.51	B 7.70 B 8.20	10 10	
5.52-6.17 6.18-7.00	B 9.10 B 10.2	10 10	12 12

TABLE 448

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)		
		Each Winding Protected by its Own Set of Fuses		Both Windings Protected by a Common Set of Fuses
		Class J or L Fuses Only	All Fuses Except Class J or L	
292-339 340-371 372-403	AR 1.68 AR 1.85 AR 2.04	500 600 600	300 350 400	
404-435 436-473 474-507	AR 2.24 AR 2.46 AR 2.71	601 601 700	450 450 500	
508-559 560-623 624-707	AR 2.98 AR 3.28 AR 3.62	700 800 800	500 600 600	
708-793 794-885 886-985	AR 3.98 AR 4.37 AR 4.80	1000 1000 1200	600 600 600	Class J fuse rating must not exceed 2.0 times motor full-load current. Class L fuse must be 1200 Amp. or less and must not exceed 1.5 times motor full-load current.
986-1040	AR 5.3	1200	600	

SELECTION TABLES 449 thru 466

TABLE 449

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
		Class J or L Fuses Only	All Fuses Except Class J or L
253-293	AR 1.68	500	Fuse Rating Must be 600 Amp. or Less and Must Not Exceed 1.3 Times Motor Full-Load Current.
294-321	AR 1.85	600	
322-348	AR 2.04	600	
349-376	AR 2.24	601	Not Suitable Above 521 Amp. Motor F.L.C.
377-409	AR 2.46	601	
410-438	AR 2.71	700	
439-483	AR 2.98	700	Not Suitable Above 521 Amp. Motor F.L.C.
484-539	AR 3.28	800	
540-611	AR 3.62	800	
612-686	AR 3.98	1000	Not Suitable Above 521 Amp. Motor F.L.C.
687-765	AR 4.37	1000	
766-852	AR 4.80	1200	
853-900	AR 5.3	1200	

TABLE 462

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)		
		Each Winding Protected by its Own Set of Fuses		Both Windings Protected by a Common Set of Fuses
		Class J Fuses Only	All Fuses Except Class J	Class J Fuses Only
210-233	AR 3.28	400	225	Fuse rating must be 600 Amp. or less and must not exceed 2.0 times motor full-load current.
234-265	AR 3.62	450	250	
266-297	AR 3.98	500	250	
298-331	AR 4.37	500	300	Fuse rating must be 600 Amp. or less and must not exceed 2.0 times motor full-load current.
332-369	AR 4.80	600	350	
370-415	AR 5.3	600	400	
416-459	AR 5.8	600	400	Fuse rating must be 600 Amp. or less and must not exceed 2.0 times motor full-load current.
460-532	AR 6.4	600	400	

TABLE 452

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
0.28-0.30	B 0.44	0.6	
0.31-0.34	B 0.51	0.6	
0.35-0.37	B 0.57	0.6	
0.38-0.44	B 0.63	0.8	
0.45-0.53	B 0.71	1	
0.54-0.59	B 0.81	1.125	
0.60-0.64	B 0.92	1.25	
0.65-0.72	B 1.03	1.4	
0.73-0.80	B 1.16	1.6	
0.81-0.90	B 1.30	1.8	
0.91-1.03	B 1.45	2	
1.04-1.14	B 1.67	2.25	
1.15-1.27	B 1.88	2.5	
1.28-1.43	B 2.10	2.8	
1.44-1.62	B 2.40	3.2	
1.63-1.77	B 2.65	3.5	
1.78-1.97	B 3.00	4	
1.98-2.32	B 3.30	4	
2.33-2.51	B 3.70	5	
2.52-2.99	B 4.15	5.6	
3.00-3.42	B 4.85	6.25	
3.43-3.75	B 5.50	7	
3.76-3.98	B 6.25	8	
3.99-4.48	B 6.90	8	
4.49-4.93	B 7.70	10	
4.94-5.21	B 8.20	10	
5.22-5.84	B 9.10	10	
		600V. Max.	250V. Max.
5.85-6.67	B 10.2	10	12
6.68-7.00	B 11.5	10	12

TABLE 466

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)
0.28-0.29	B 0.44	0.6
0.30-0.33	B 0.51	0.6
0.34-0.36	B 0.57	0.6
0.37-0.44	B 0.63	0.8
0.45-0.52	B 0.71	1
0.53-0.59	B 0.81	1.125
0.60-0.64	B 0.92	1.25
0.65-0.71	B 1.03	1.4
0.72-0.80	B 1.16	1.6
0.81-0.90	B 1.30	1.8
0.91-1.03	B 1.45	2
1.04-1.14	B 1.67	2.25
1.15-1.27	B 1.88	2.5
1.28-1.44	B 2.10	2.8
1.45-1.63	B 2.40	3.2
1.64-1.79	B 2.65	3.5
1.80-2.01	B 3.00	4
2.02-2.19	B 3.30	4.5
2.20-2.52	B 3.70	4.5
2.53-2.95	B 4.15	5.6
2.96-3.17	B 4.85	6.25
3.18-3.50	B 5.50	7
3.51-3.73	B 6.25	7
3.74-4.22	B 6.90	8

(Cont'd)

TABLE 466 Continued

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
4.23-4.68	B 7.70	9	
4.69-4.98	B 8.20	10	
4.99-5.59	B 9.10	10	
5.60-6.43	B 10.2	12	
6.44-7.41	B 11.5	12	
7.42-8.02	B 12.8	15	
8.03-8.59	B 14	17.5	
8.60-9.52	B 15.5	17.5	
9.53-10.5	B 17.5	20	
10.6-11.2	B 19.5	20	
		600V. Max.	250V. Max.
11.3-12.0	B 22	20	25
Following Selections for Size M-1 Only			
11.3-12.7	B 22	25	25
12.8-14.3	B 25	25	25
14.4-16.1	B 28.0	30	30
16.2-17.8	B 32	30	35
17.9-20.1	B 36	30	40
20.2-22.6	B 40	30	40
22.7-25.5	B 45	30	40
25.6-26.0	B 50	30	40

SELECTION TABLES 467 thru 470

TABLE 467

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)	
0.29-0.30	B 0.44	0.6	
0.31-0.35	B 0.51	0.6	
0.36-0.37	B 0.57	0.8	
0.38-0.45	B 0.63	0.8	
0.46-0.54	B 0.71	1	
0.55-0.61	B 0.81	1.125	
0.62-0.66	B 0.92	1.25	
0.67-0.74	B 1.03	1.4	
0.75-0.83	B 1.16	1.6	
0.84-0.93	B 1.30	1.8	
0.94-1.07	B 1.45	2	
1.08-1.19	B 1.67	2.25	
1.20-1.33	B 1.88	2.5	
1.34-1.51	B 2.10	2.8	
1.52-1.70	B 2.40	3.2	
1.71-1.87	B 2.65	3.5	
1.88-2.10	B 3.00	4	
2.11-2.29	B 3.30	4.5	
2.30-2.63	B 3.70	5	
2.64-3.09	B 4.15	5.6	
3.10-3.32	B 4.85	6.25	
3.33-3.67	B 5.50	7	
3.68-3.91	B 6.25	8	
3.92-4.43	B 6.90	8	
4.44-4.91	B 7.70	9	
4.92-5.23	B 8.20	10	
5.24-5.88	B 9.10	10	
5.89-6.77	B 10.2	12	
6.78-7.90	B 11.5	15	
7.91-8.44	B 12.8	17.5	
8.45-9.05	B 14	17.5	
9.06-9.99	B 15.5	20	
10.0-11.0	B 17.5	20	
11.1-11.9	B 19.5	20	
12.0-12.0	B 22	600V. Max.	250V. Max.
		20	25
Following Selections For Size M-1 Only			
12.0-13.4	B 22	25	25
13.5-15.1	B 25	30	30
15.2-17.0	B 28.0	30	30
17.1-18.9	B 32	30	35
19.0-21.4	B 36	30	40
21.5-24.0	B 40	30	40
24.1-26.0	B 45	30	40

TABLE 469

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)		
0.29-0.31	B 0.44	0.6		
0.32-0.36	B 0.51	0.6		
0.37-0.39	B 0.57	0.8		
0.40-0.47	B 0.63	0.8		
0.48-0.56	B 0.71	1		
0.57-0.63	B 0.81	1.25		
0.64-0.69	B 0.92	1.4		
0.70-0.77	B 1.03	1.4		
0.78-0.86	B 1.16	1.6		
0.87-0.97	B 1.30	1.8		
0.98-1.12	B 1.45	2		
1.13-1.24	B 1.67	2.5		
1.25-1.39	B 1.88	2.8		
1.40-1.57	B 2.10	2.8		
1.58-1.78	B 2.40	3.5		
1.79-1.96	B 2.65	4		
1.97-2.20	B 3.00	4		
2.21-2.41	B 3.30	4.5		
2.42-2.75	B 3.70	5		
2.76-3.25	B 4.15	5.6		
3.26-3.50	B 4.85	7		
3.51-3.87	B 5.50	7		
3.88-4.13	B 6.25	8		
4.14-4.69	B 6.90	9		
4.70-5.20	B 7.70	10		
5.21-5.53	B 8.20	10		
5.54-6.23	B 9.10	12		
6.24-7.18	B 10.2	12		
7.19-8.20	B 11.5	15		
8.21-8.98	B 12.8	17.5		
8.99-9.63	B 14	20		
9.64-10.6	B 15.5	20		
10.7-11.8	B 17.5	20		
11.9-12.7	B 19.5	25		
12.8-14.3	B 22	25		
14.4-16.1	B 25	Size M-0	Size M-1	Size M-1P
16.2-18.0	B 28.0	25	30	30
Following Selections for Size M-1 & M-1P Only				
16.2-18.3	B 28.0	—	35	35
18.4-20.2	B 32	—	40	40
20.3-23.0	B 36	—	40	45
23.1-26.0	B 40	—	40	50
Following Selections for Size M-1P Only				
25.9-29.0	B 45	—	—	50
29.1-30.8	B 50	—	—	50
30.9-32.7	B 56	—	—	50
32.8-36.0	B 62	—	—	50

TABLE 470

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)		
0.32-0.33	B 0.44	0.6		
0.34-0.38	B 0.51	0.6		
0.39-0.41	B 0.57	0.8		
0.42-0.50	B 0.63	0.8		
0.51-0.61	B 0.71	1.125		
0.62-0.68	B 0.81	1.25		
0.69-0.74	B 0.92	1.4		
0.75-0.83	B 1.03	1.6		
0.84-0.93	B 1.16	1.8		
0.94-1.05	B 1.30	2		
1.06-1.21	B 1.45	2.25		
1.22-1.34	B 1.67	2.5		
1.35-1.50	B 1.88	2.8		
1.51-1.70	B 2.10	3.2		
1.71-1.93	B 2.40	3.5		
1.94-2.12	B 2.65	4		
2.13-2.38	B 3.00	4.5		
2.39-2.61	B 3.30	5		
2.62-2.99	B 3.70	5.6		
3.00-3.53	B 4.15	6.25		
3.54-3.80	B 4.85	7		
3.81-4.21	B 5.50	8		
4.22-4.49	B 6.25	9		
4.50-5.10	B 6.90	10		
5.11-5.66	B 7.70	10		
5.67-6.03	B 8.20	12		
6.04-6.79	B 9.10	12		
6.80-7.84	B 10.2	15		
7.85-8.96	B 11.5	17.5		
8.97-9.82	B 12.8	20		
9.83-10.4	B 14	20		
10.5-11.6	B 15.5	20		
11.7-12.9	B 17.5	25		
13.0-13.9	B 19.5	25		
14.0-15.7	B 22	Size M-0	Size M-1	Size M-1P
		25	30	30
15.8-18.0	B 25	25	35	35
Following Selections for Size M-1 & M-1P Only				
17.8-20.1	B 28.0	—	40	40
20.2-22.2	B 32	—	40	45
22.3-25.3	B 36	—	40	50
25.4-26.0	B 40	—	40	50
Following Selections for Size M-1P Only				
25.4-28.4	B 40	—	—	50
28.5-33.1	B 45	—	—	50
33.2-36.0	B 50	—	—	50

SELECTION TABLES 496 thru 497

TABLE 496

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)			
		Single Motor Installation (NEC 430-52)	Group Motor Installation (NEC 430-53)		
			Class K9 Or Unclassified Fuse	Class K5 Fuse	
0.28-0.29	B 0.44	0.6	15	30	
0.30-0.33	B 0.51	0.6	15	30	
0.34-0.36	B 0.57	0.6	15	30	
0.37-0.44	B 0.63	0.8	15	30	
0.45-0.52	B 0.71	1	15	30	
0.53-0.59	B 0.81	1.125	15	30	
0.60-0.64	B 0.92	1.25	15	30	
0.65-0.71	B 1.03	1.4	15	30	
0.72-0.80	B 1.16	1.6	20	30	
0.81-0.90	B 1.30	1.8	20	30	
0.91-1.03	B 1.45	2	20	30	
1.04-1.14	B 1.67	2.25	20	30	
1.15-1.27	B 1.88	2.5	20	30	
1.28-1.44	B 2.10	2.8	25	30	
1.45-1.63	B 2.40	3.2	25	30	
1.64-1.79	B 2.65	3.5	25	30	
1.80-2.01	B 3.00	4	25	30	
2.02-2.19	B 3.30	4.5	30	30	
2.20-2.52	B 3.70	4.5	30	30	
2.53-2.95	B 4.15	5.6	30	30	
2.96-3.17	B 4.85	6.25	30	30	
3.18-3.50	B 5.50	7	30	30	
3.51-3.73	B 6.25	7	30	30	
3.74-4.22	B 6.90	8	30	30	
4.23-4.68	B 7.70	9	30	30	
4.69-4.98	B 8.20	10	30	30	
4.99-5.59	B 9.10	10	30	30	
5.60-6.43	B 10.2	12	30	30	
6.44-7.41	B 11.5	12	30	30	
7.42-8.02	B 12.8	15	30	30	
8.03-8.59	B 14	17.5	30	30	
8.60-9.52	B 15.5	17.5	30	30	
9.53-10.5	B 17.5	20	30	30	
10.6-11.2	B 19.5	20	GROUP FUSING RESTRICTIONS Maximum thermal unit size: B14. Maximum branch-circuit available current: 5,000 amp. symmetrical.		
11.3-12.0	B 22	20			25

TABLE 497

Motor Full-Load Current (Amp.)	Thermal Unit Number	Maximum Fuse Rating (Amp.)		
		Single Motor Installation (NEC 430-52)	Group Motor Installation (NEC 430-53)	
			Class K9 Or Unclassified Fuse	Class K5 Fuse
0.29-0.31	B 0.44	0.6	15	30
0.32-0.36	B 0.51	0.6	15	30
0.37-0.39	B 0.57	0.8	15	30
0.40-0.47	B 0.63	0.8	15	30
0.48-0.56	B 0.71	1	15	30
0.57-0.63	B 0.81	1.25	15	30
0.64-0.69	B 0.92	1.4	15	30
0.70-0.77	B 1.03	1.4	15	30
0.78-0.86	B 1.16	1.6	20	30
0.87-0.97	B 1.30	1.8	20	30
0.98-1.12	B 1.45	2	20	30
1.13-1.24	B 1.67	2.5	20	30
1.25-1.39	B 1.88	2.8	20	30
1.40-1.57	B 2.10	2.8	25	30
1.58-1.78	B 2.40	3.5	25	30
1.79-1.96	B 2.65	4	25	30
1.97-2.20	B 3.00	4	25	30
2.21-2.41	B 3.30	4.5	30	30
2.42-2.75	B 3.70	5	30	30
2.76-3.25	B 4.15	5.6	30	30
3.26-3.50	B 4.85	7	30	30
3.51-3.87	B 5.50	7	30	30
3.88-4.13	B 6.25	8	30	30
4.14-4.69	B 6.90	9	30	30
4.70-5.20	B 7.70	10	30	30
5.21-5.53	B 8.20	10	30	30
5.54-6.23	B 9.10	12	30	30
6.24-7.18	B 10.2	12	30	30
7.19-8.20	B 11.5	15	30	30
8.21-8.98	B 12.8	17.5	30	30
8.99-9.63	B 14	20	GROUP FUSING RESTRICTIONS Maximum thermal unit size: B12.8. Maximum branch-circuit available current: 5,000 amp. symmetrical.	
9.64-10.6	B 15.5	20		
10.7-11.8	B 17.5	20		
11.9-12.7	B 19.5	25		
12.8-14.3	B 22	25		
14.4-16.1	B 25	25		
16.2-18.0	B 28.0	25		

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