



Fuses Made Simple™ - Control Circuits

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Overview



- Control circuit (supplemental) fuses color-coded by maximum voltage
- Consistent look and feel to each fuse
- Enhanced system safety
- Simplified selection in three easy steps

Includes: *KTK, KLM, BBS, BAF*
MIC, FNQ, FNM, FNA
MIS, KAZ, DMM

The easiest and fastest way to select and specify the right fuse

Find the Right Fuse in Three Simple Steps!

1

TYPE

Select the fuse type. Select from time-delay (for inductive loads) or fast-acting (for resistive loads).

2

VOLTAGE

Select the voltage rating needed. Keep in mind that fuse voltage rating must be equal to or greater than the circuit voltage.







3

INTERRUPTING RATING

Verify that the interrupting rating of the fuse selected is sufficient for the circuit application. Keep in mind that the interrupting rating must be equal to or greater than the available short-circuit current.

Simple and fast fuse selection

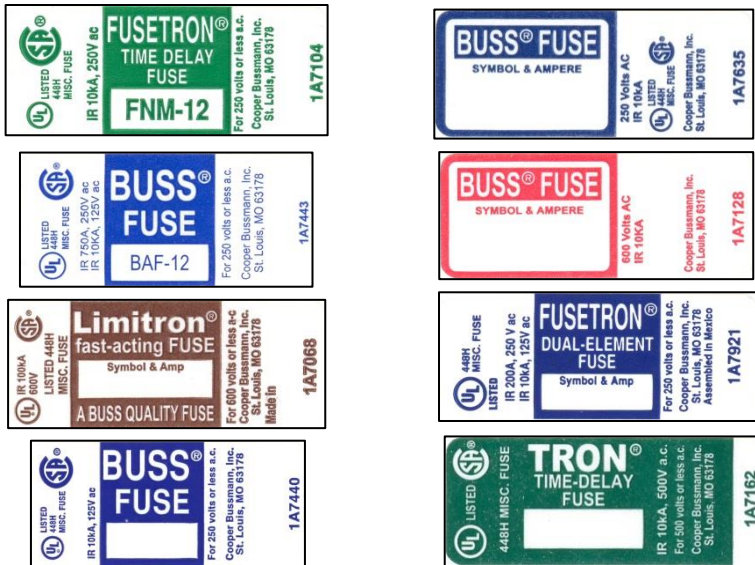
Fuse Selection Chart

	600Vac	500Vac	250Vac	125Vac	48Vac	32Vac
TIME-DELAY	 600Vac Low-Peak™ Class CC (LP-CC) fuse recommended	 500Vac INTERRUPTING RATING FNQ 10kA (1/16 - 30 Amp)	 250Vac FAMILY INTERRUPTING RATING FNM 35A (1/16 - 1 Amp) 100A (1 1/4 - 3 1/2 Amp) 200A (4 - 10 Amp) 10kA (12 - 30 Amp) FNA² 35A (1/16 - 9/16 Amp) 200A (1 - 6 Amp)	 125Vac FAMILY INTERRUPTING RATING FNA² 10kA (6 1/4 - 15 Amp)	 48Vac Upgrade to 125Vac	 32Vac INTERRUPTING RATING FNA² 1kA (20 - 30 Amp)
	FAST-ACTING	INTERRUPTING RATING KTK 100kA (1/16 - 30 Amp) KLM³ 100kA (1/16 - 30 Amp) BBS¹ 10kA (1/16 - 6 Amp)	Upgrade up to 600Vac	FAMILY INTERRUPTING RATING BAF 35A (1/4 - 1 Amp) MIC² 35A (1 Amp) 100A (1 1/2 - 3 Amp) 100A (2 - 3 Amp) 200A (4 - 10 Amp) 200A (5 - 10 Amp) 750A (12 - 15 Amp) 750A (15 Amp) 200A (20 - 30 Amp) BBS¹ 10kA (7 - 10 Amp)	Upgrade to 250Vac	INTERRUPTING RATING BBS¹ kA™ (12 - 30 Amp)

¹Fuse is 1 1/8" long ²Fuse is pin indicating ³Fuse is also rated for 600Vdc, 50kA interrupting rating
 *For primary protection of control transformers, use FNQ-R. †For interrupting rating, contact factory.

Comparison: Yesterday vs. Today

Current Situation



- Inconsistent look and feel
- Voltage rating on side
- Fuse type not shown
- Confusing to replace
- 15 families w/ 13 labels designs

Fuses Made Simple™ – Control Circuits

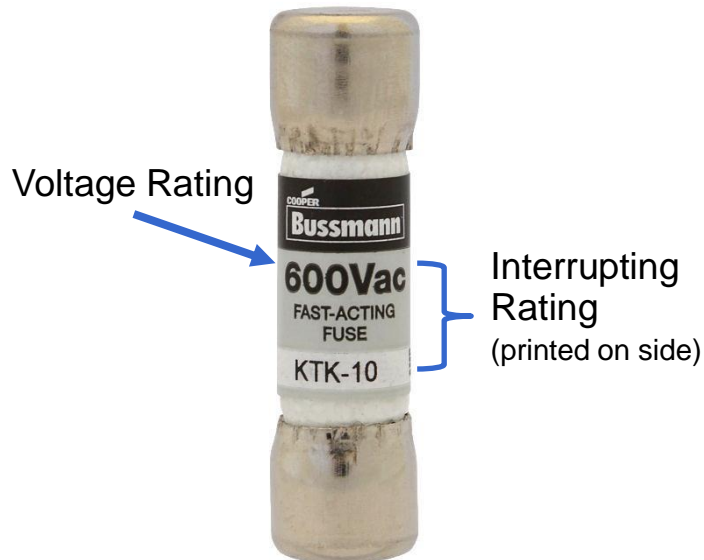


- Consistent look and feel
- Voltage rating clear on front
- Fuse type easy to read and find
- Simple and quick to replace
- 11 families w/ 7 label designs

Unique color coding offers enhanced safety

Enhanced Safety

Voltage and Interrupting Rating



- Voltage rating of the fuse should be equal to or greater than the system voltage
- Interrupting rating should be equal to or greater than the available short circuit current
- Failure to comply with these ratings could result in compromised system and personnel safety
- Ensuring compliance is easy by selecting the correct color-code and verifying the interrupting rating – both clearly marked on the fuse

Comparison: Examples



Key Features and Benefits

Features



Benefits

Clear and consistent fuse labels with maximum voltage rating clearly marked

The consistent look of the control fuse family with voltage rating clearly marked helps to prevent misapplication. In addition, critical information such as characteristic, interrupting rating, agency listings and part number are presented in an easy to read format.

Unique, industry-first color coding by maximum voltage

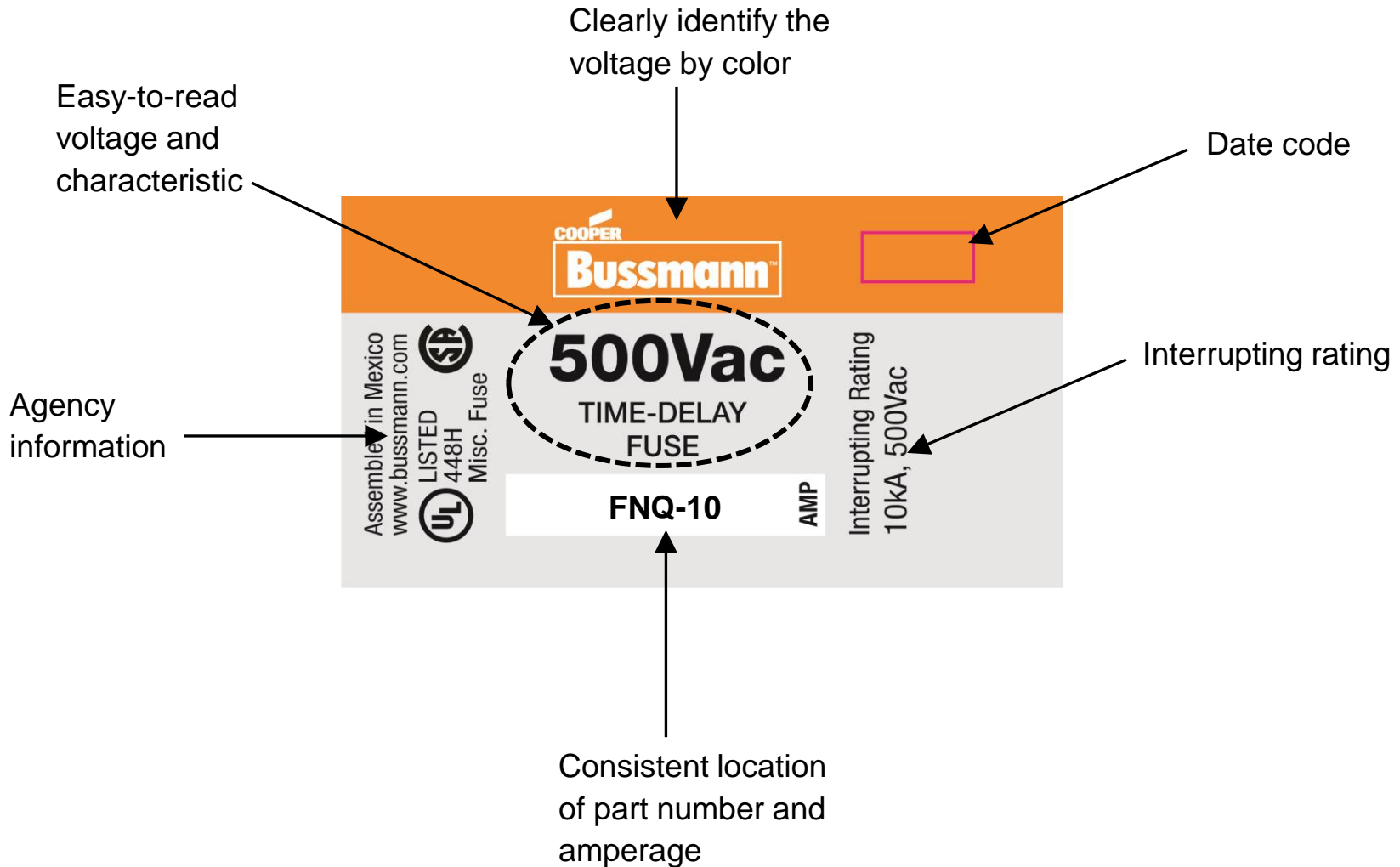
Color band on each fuse label associates the color with the marked voltage rating. This helps the user speed replacement with the correct fuse.

Simplified and quick selection of control circuit fuses

With just three simple steps, Fuses Made Simple™ - Control Circuits provides the easiest and fastest way of selecting and specifying the right control circuit fuse.

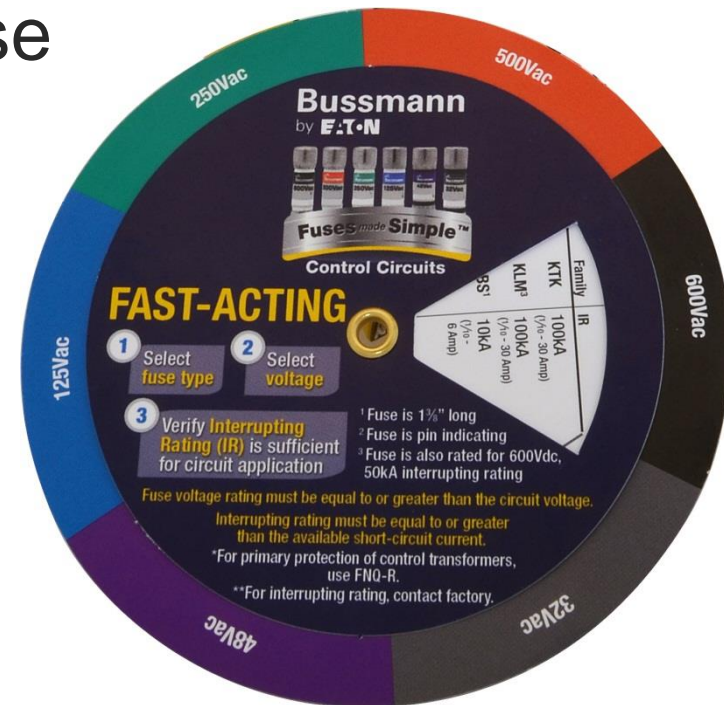
The easiest and fastest way to select and specify the right fuse

Consistent Look for Each Label



Easy Selection Wheel

- Easily select the correct fuse
- Two sided wheel
 - Fast-Acting
 - Time-Delay
- Use to follow the three simple steps
- Makes selecting the right control fuse fast and easy!



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