COOPER Bussmann

Fusetron®

Dual-Element, Time-Delay Fuses with Indication
Class RK5 - 600 Volt

FRS-R_ID

6-60A

Now Available With Optional Indication

Catalog Symbol: FRS-R_ID
Current-Limiting
Dual-element, time-delay – 10 seconds (minimum) at 500% rated current

Ratings:
Volts – 600Vac (or less)
Amps – 6-60A
IR – 200kA RMS Sym.
– 20kA @250Vdc

Agency Information:
CE, UL Listed, Std. 248-12, Class RK-5, Guide JDDZ, File E4273
CSA Certified, C22.2 No. 248.12, Class 1422-01, File 53787

Catalog Numbers

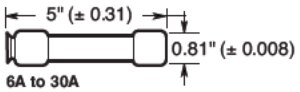
FRS-R-6ID	FRS-R-10ID	FRS-R-30ID
FRS-R-6 ¼ID	FRS-R-12ID	FRS-R-35ID
FRS-R-7ID	FRS-R-15ID	FRS-R-40ID
FRS-R-7 ½ID	FRS-R-17 ½ID	FRS-R-45ID
FRS-R-8ID	FRS-R-20ID	FRS-R-50ID
FRS-R-9ID	FRS-R-25ID	FRS-R-60ID

Carton Quantity and Weight

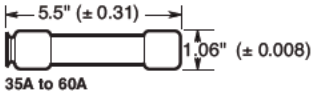
Ampere Ratings	Carton Qty.	Weight* Lbs.	Weight* Kg.
6–15	10	0.40	0.181
17.5–30	10	0.50	0.277
35-60	10	3.10	1.406

*Weight per carton

Dimensional Data



6A to 30A



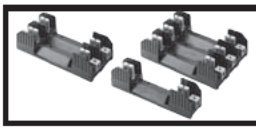
35A to 60A

General Information:

- Permanent replacement fuse indication.
- Provides motor overload, ground fault and short-circuit protection. When used in circuits subject to surge currents such as those caused by motors, transformers and other inductive components, these fuses can be sized close to full-load amps to give maximum overcurrent protection.
- Permits the use of smaller and less costly switches. The time-delay feature makes it possible to use fuse amp ratings which are much smaller than those of non-time-delay fuses. Considerable cost savings occurs by permitting the use of smaller size switches, panels and fuses.
- Provides a higher degree of short-circuit protection (greater current-limitation) in circuits in which surge currents or temporary overloads occur.
- Helps protect motors against burnout from overloads.
- Gives motor-running back-up protection to motors without extra costs.
- Helps protect motors against burnout from single-phasing on three-phase systems.
- Simplifies and improves blackout prevention (via selective coordination).
- Dual-element fuses can be applied in circuits subject to temporary motor overloads and surge currents to provide both high-performance, short-circuit and overload protection.
- The overload element provides protection against low level overcurrent of overloads and will hold an overload which is five times the amp rating of the fuse for a minimum of ten seconds.

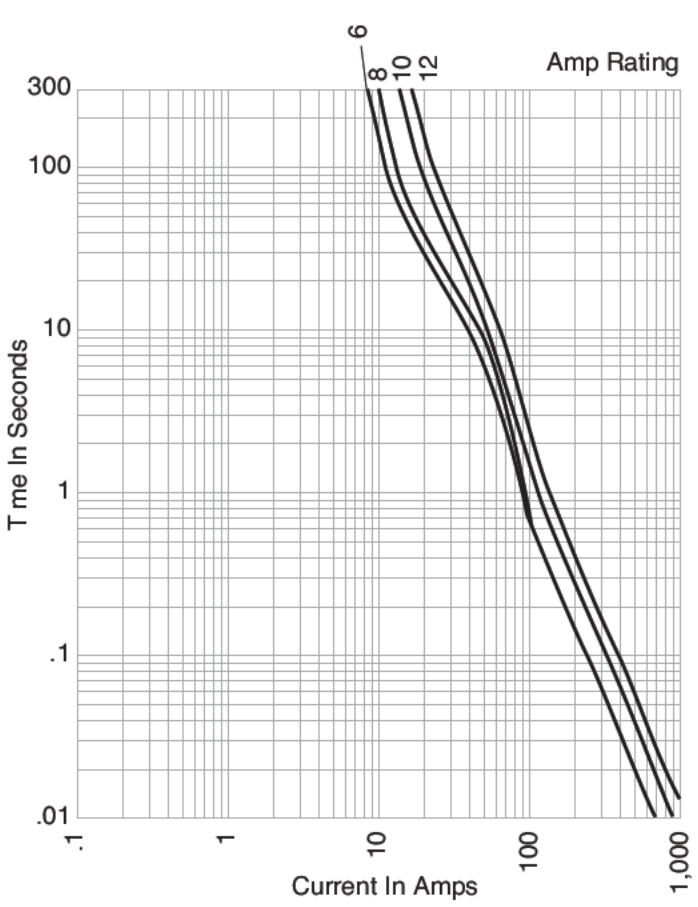
Fuse Reducers For Class R Fuses

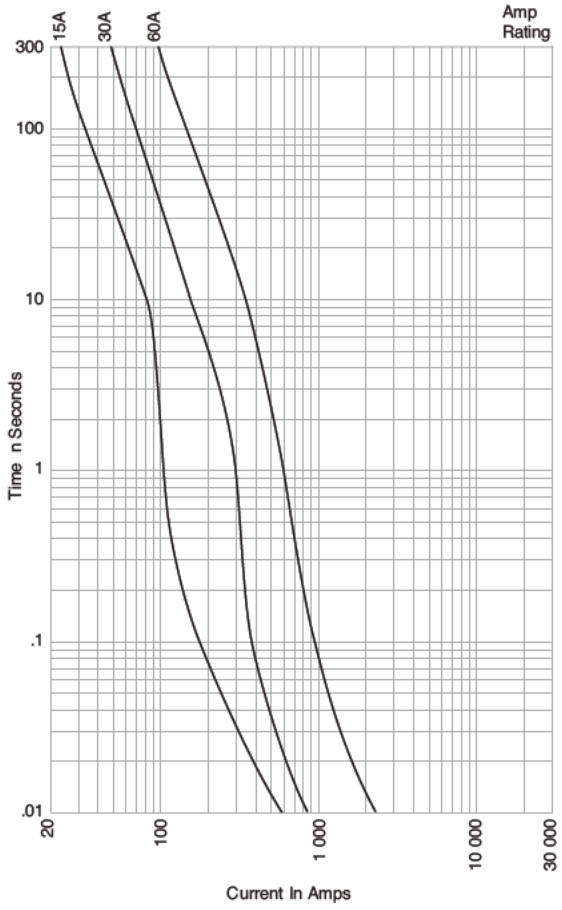
Equipment Fuse Clips	Desired Fuse (Case) Size	Catalog Number (Pairs) 600V
60A	30A	No. 663-R
100A	30A	No. 216-R
	60A	No. 616-R
200A	60A	No. 626-R



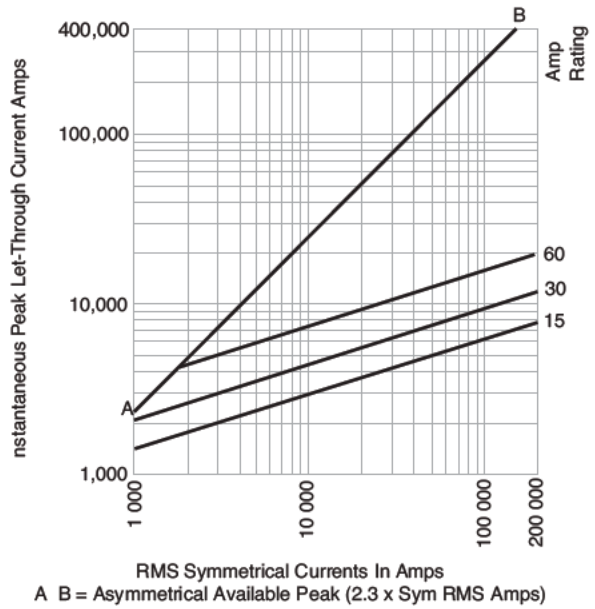
Recommended fuseblocks for Class R 600V fuses
See Data Sheet: 1111

Time-Current Characteristic Curves–Average Melt





Current-Limitation Curves



A B = Asymmetrical Available Peak (2.3 x Sym RMS Amps)