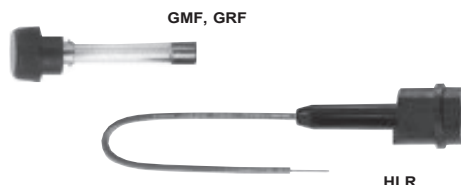


# GMF and GRF non-rejection fuses and HLR holders



## Catalog symbols:

- GMF
- GRF
- HLR-2

## Description:

Bussmann® series non-rejecting, time-delay, in-line fuses and holders.

## Specifications:

### Ratings

- Volts - 300 Vac
- Amps
  - GMF 3/10-6 1/4 A
  - GRF 7-10 A
- Interrupting rating - 10 kA

### Agency information

#### GMF and GRF fuse:

- UL® Listed, Std. 248-14, Guide JDYX, File E19180
- CSA® Certified, C22.2 No. 248.14, Class 1422-01, File 53787
- CE

#### HLR fuseholder:

- UL Recognized, 12A, 300 Vac, Guide IZLT2, File E14853
- CSA Certified, 12A, 300 Vac, Class 6225-01, File 47235
- CE

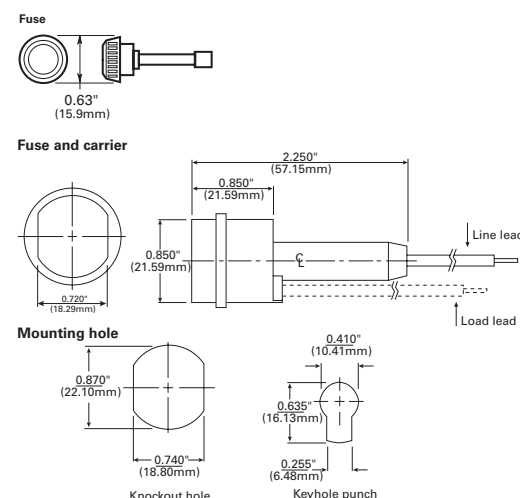
#### HLR-2:

- UL Recognized, 15A, 300 Vac, Guide IZLT2, File E14853
- CSA Certified, 15A, 300 Vac, Class 6225-01, File 47235
- CE

## Additional information:

- HLR carrier comes with 6" of #18 red insulated solid copper wire attached to the line side
- Customer inserts a #18 insulated solid copper wire into load side receptacle
- Order part number HLR-2 to obtain 6" of #18 black insulated solid copper wire pre-installed in a load side receptacle
- Order part number HLR-2L to obtain 6" of #18 black insulated solid copper wire packaged loose (un-installed)
- An alternative to the HLR fuseholder is the A fuseholder. The A fuseholder comes WITHOUT leads. The customer inserts #18 insulated solid copper wire into the line side receptacle as well as into the load side receptacle. It has the same body dimensions, utilizes the same mounting hole, and takes the same mounting clips as the HLR. The A fuseholder is UL Recognized, 10A, 300Vac, Guide IZLT2, File E14853 and CSA Certified, 10A, 300Vac, Class 6225-01, File 47235
- Fuse and knob are an integral one-piece unit. There are no replacement knobs (caps)
- Units can be panel mounted with a separate steel clip. For the knockout hole (see above), choose #BK/A-104. For the keyhole punch type hole, choose #6374 for panels 0.043" to 0.062" thick, or #4909 for panels 0.030" to 0.042" thick
- Do not put tension on line (rear) terminal of fuseholder

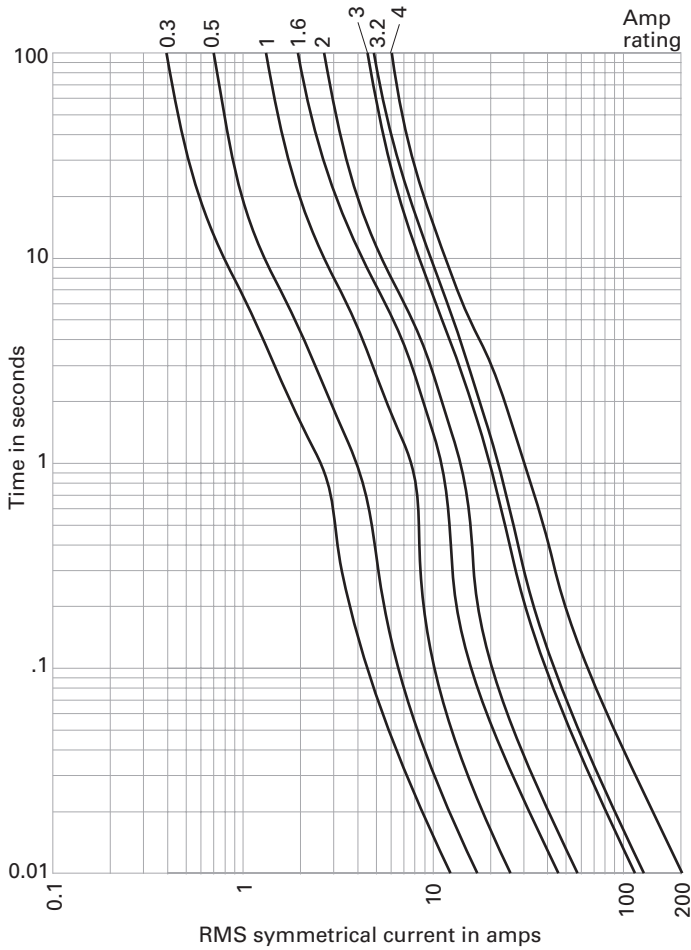
## Dimensions - in (mm):



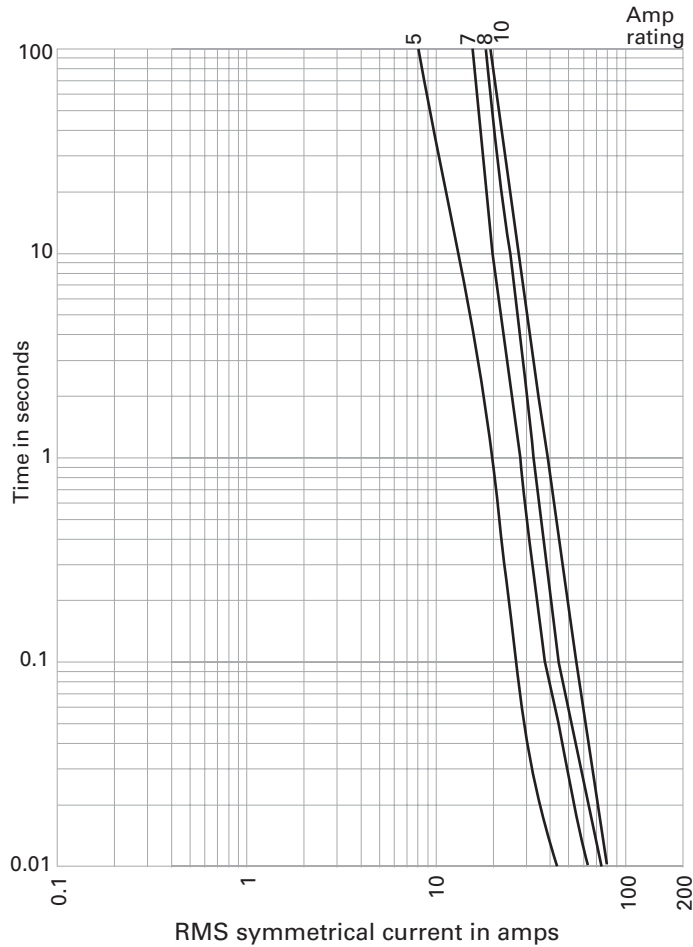
Catalog numbers

| Fuse       | Holder | Fuse       | Holder |
|------------|--------|------------|--------|
| GMF-3/10   | HLR    | GMF-3      | HLR    |
| GMF-1/2    | HLR    | GMF-3 2/10 | HLR    |
| GMF-6/10   | HLR    | GMF-4      | HLR    |
| GMF-8/10   | HLR    | GMF-5      | HLR    |
| GMF-1      | HLR    | GMF-6 1/4  | HLR    |
| GMF-1 1/4  | HLR    | GRF-7      | HLR    |
| GMF-1 6/10 | HLR    | GRF-8      | HLR    |
| GMF-2      | HLR    | GRF-10     | HLR    |
| GMF-2 1/2  | HLR    | GMF-10     | HLR    |
| GMF-2 8/10 | HLR    |            |        |

Time-current curves–average melt



Time-current curves–average melt



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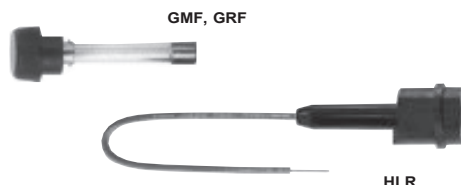
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- CSA® Certified, C22.2 No. 248.14, Class 1422-01, File 53787
- CE

#### HLR fuseholder:

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- CSA Certified, 12A, 300 Vac, Class 6225-01, File 47235
- CE

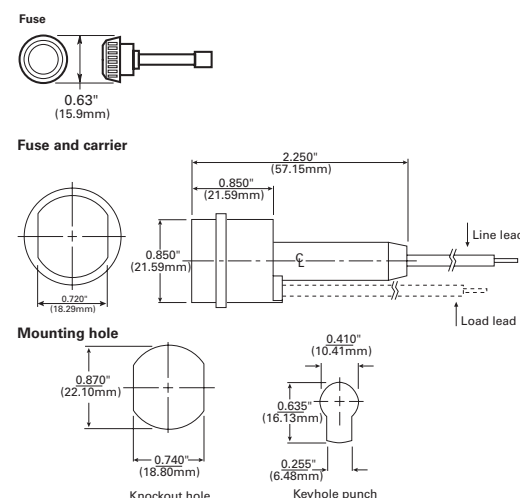
#### HLR-2:

- UL Recognized, 15A, 300 Vac, Guide IZLT2, File E14853
- CSA Certified, 15A, 300 Vac, Class 6225-01, File 47235
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## Additional information:

- HLR carrier comes with 6" of #18 red insulated solid copper wire attached to the line side
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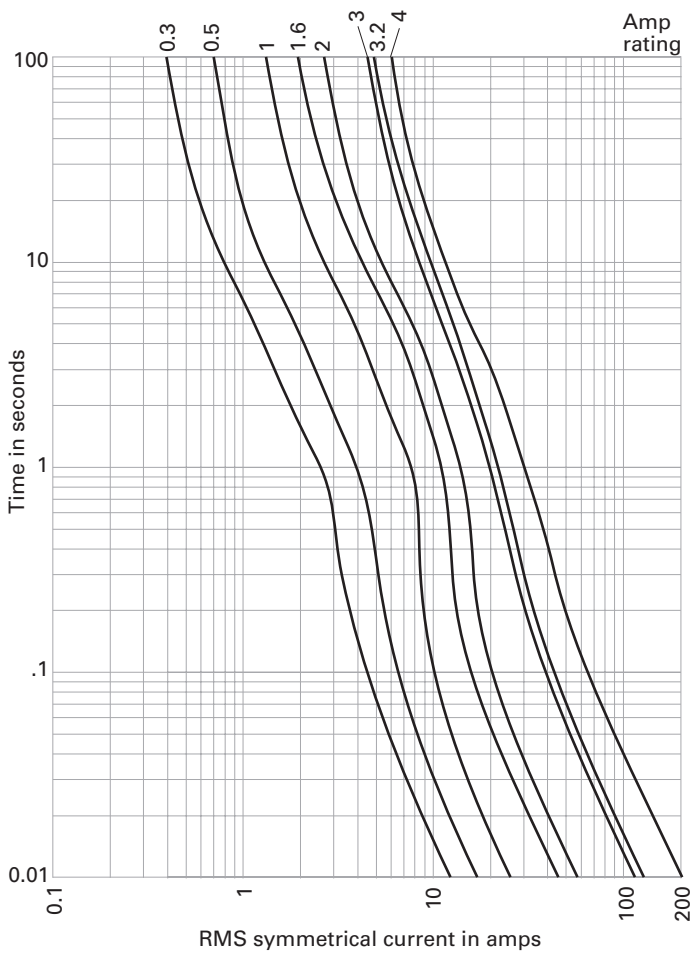
## Dimensions - in (mm):



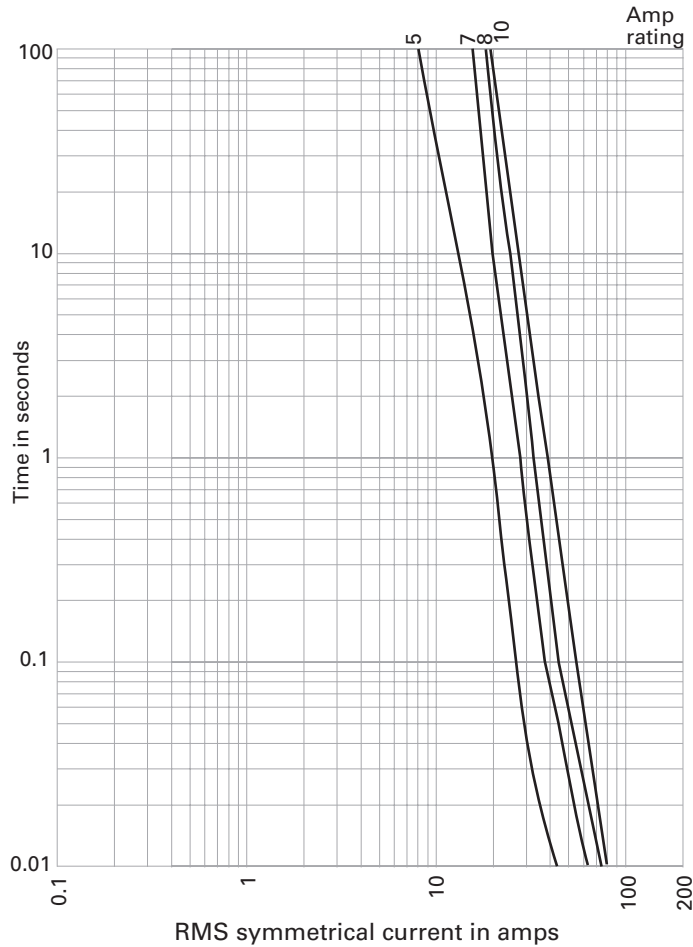
Catalog numbers

| Fuse       | Holder | Fuse       | Holder |
|------------|--------|------------|--------|
| GMF-3/10   | HLR    | GMF-3      | HLR    |
| GMF-1/2    | HLR    | GMF-3 2/10 | HLR    |
| GMF-6/10   | HLR    | GMF-4      | HLR    |
| GMF-8/10   | HLR    | GMF-5      | HLR    |
| GMF-1      | HLR    | GMF-6 1/4  | HLR    |
| GMF-1 1/4  | HLR    | GRF-7      | HLR    |
| GMF-1 6/10 | HLR    | GRF-8      | HLR    |
| GMF-2      | HLR    | GRF-10     | HLR    |
| GMF-2 1/2  | HLR    | GMF-10     | HLR    |
| GMF-2 8/10 | HLR    |            |        |

Time-current curves–average melt



Time-current curves–average melt



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