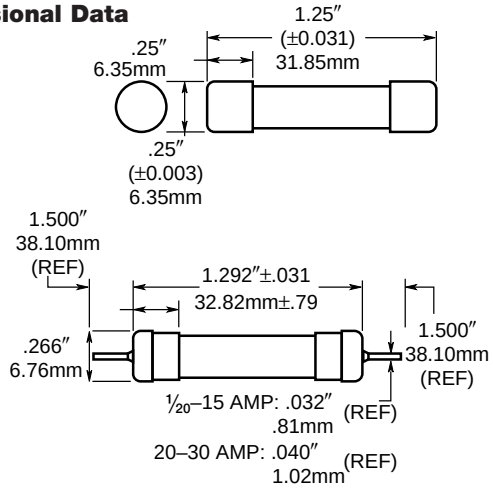
# Fast-Acting Glass Fuses

## For ¼″ × 1¼″ (6.3mm × 32mm)

# AGC
# AGC-V

**Catalog Symbol:** AGC (3AG)
**Fast-Acting**
***Agency Approvals:** U.L./CSA 248-14
**Construction:** Glass Tube
Nickel-Plated Brass Endcaps

**Dimensional Data**




### Electrical Characteristics

| Rated Current | Rated Voltage AC (Max.) | Rated Voltage DC[6] (Max.) | Interrupting Rating[1] AC | Interrupting Rating[1] DC[6] | Pre-arcing $I^2t$ ($A^2Sec$) AC | Pre-arcing $I^2t$ ($A^2Sec$) DC[6] | Typical Total Clearing[3] $I^2t$ ($A^2Sec$) AC | Typical Total Clearing[3] $I^2t$ ($A^2Sec$) DC[6] | Typical Voltage Drop[2] Volts at 100% Rated Current | Agency* Approvals U.L. | U.R. | CSA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/20 | 250V | 250V | 35A | 35A | $2.60 \times 10^{-4}$ | 4.09 | $6.50 \times 10^{-4}$ | 7.94 | .67 | • | | • |
| 1/16 | 250V | 250V | 35A | 35A | $2.40 \times 10^{-4}$ | $7.60 \times 10^{-5}$ | $3.40 \times 10^{-4}$ | $2.12 \times 10^{-4}$ | 10.41 | • | | • |
| 1/10 | 250V | 250V | 35A | 35A | $5.50 \times 10^{-4}$ | $4.77 \times 10^{-4}$ | $1.01 \times 10^{-3}$ | $1.27 \times 10^{-3}$ | 6.00 | • | | • |
| 1/8 | 250V | 250V | 35A | 35A | .003 | .002 | .69 | .003 | 4.67 | • | | • |
| 3/16 | 250V | 250V | 35A | 35A | .008 | .007 | .84 | .011 | 4.12 | • | | • |
| 2/10 | 250V | 250V | 35A | 35A | .011 | .008 | .74 | .013 | 4.51 | • | | • |
| 1/4 | 250V | 250V | 35A | 35A | .015 | .014 | .38 | .049 | .89 | • | | • |
| 3/10 | 250V | 250V | 35A | 35A | .044 | .040 | 1.57 | .051 | 2.88 | • | | • |
| 3/8 | 250V | 250V | 35A | 35A | .091 | .072 | 2.59 | .118 | 4.59 | • | | • |
| 4 5/100 | 250V | 250V | 35A | 35A | .12 | .09 | 2.78 | 2.67 | 2.67 | • | | • |
| 1/2 | 250V | 250V | 35A | 35A | .28 | .24 | 2.75 | 1.41 | .59 | • | | • |
| 3/4 | 250V | 250V | 35A | 35A | .82 | .80 | 3.69 | 1.49 | .37 | • | | • |
| 1 | 250V | 250V | 35A | 35A | 1.50 | 1.44 | 5.21 | 2.87 | .31 | • | | • |
| 1¼ | 250V | 250V | 100A | 100A | 1.95 | 2.14 | 10.69 | 9.66 | .35 | • | | • |
| 1½ | 250V | 250V | 100A | 100A | 3.44 | 3.80 | 16.41 | 19.08 | .27 | • | | • |
| 2 | 250V | 250V | 100A | 100A | 5.4 | — | 22.14 | — | .28 | • | | • |
| 2¼ | 250V | 250V | 100A | 100A | 6.0 | 5.93 | 19.04 | 15.70 | .26 | • | | • |
| 2½ | 250V | 250V | 100A | 100A | 5.3 | 7.36 | 19.70 | 14.67 | .31 | • | | • |
| 3 | 250V | 250V | 100A | 100A | 12.19 | 13.25 | 27.29 | 24.07 | .25 | • | | • |
| 4 | 250V | 250V | 200A | 200A | 25.08 | 27.57 | 74.91 | 51.20 | .22 | • | | • |
| 5 | 250V | 250V | 200A | 200A | 7.08 | 7.19 | 39.80 | 22.70 | .23 | • | | • |
| 6 | 250V | 250V | 200A | 200A | 10.52 | 11.60 | 59.49 | 30.60 | .23 | • | | • |
| 7 | 250V | 250V | 200A | 200A | 13.27 | 14.20 | 67.68 | 42.30 | .23 | • | | • |
| 8 | 250V | 250V | 200A | 200A | 24.56 | 25.59 | 104.90 | 55.81 | .19 | • | | • |
| 9 | 250V | 250V | 200A | 200A | 211.00 | 205.33 | 238.40 | 274.00 | .18 | • | | • |
| 10 | 250V | 250V | 200A | 200A | 240.30 | 268.00 | 315.70 | 322.00 | .20 | • | | • |
| 15 | 32V | 32V | 1000A | 1000A | 577.00 | | 691.00 | | .14 | | • | • |
| 20 | 32V | 32V | 1000A | 1000A | 1241.00 | | 1450.00 | | .12 | | • | • |
| 25 | 32V | 32V | 1000A | 1000A | 2276.00 | | 2588.00 | | .11 | | • | • |
| 30 | 32V | 32V | 1000A | 1000A | 3812.00 | | 4098.00 | | .12 | | • | • |

*Approvals: U.L. Listed, Std. 248-14, Guide JDYX, File E19180; CSA Certification, Class 1422-01, File 53787; AGC & AGC-V U.L. Recognized, Guide JDYX2, File E19180.

1. Interrupting ratings were measured at 70%-80% power factor on AC, and at a time constant described in U.L. 198L.
2. Voltage drop was measured at 25°C ± 3°C ambient temperature at rated current.
3. $I^2t$ was measured at listed interrupting rating and rated voltage.
4. Interrupting rating for AGC 1/500-10A @ 125V is 10,000A. Interrupting rating listed corresponds to maximum rated voltage.
5. The AGC-10A fuse is self-certified for 32 Vdc at 1000 AIC.
6. Other available sizes include: 1/500, 1/200, 1/100, 1/50, 1/32, 15/100, 175/1000, 1/3, 4/10, 6/10, 8/10, 12/10, 13/10, 16/10, 13/4, 18/10, 32/10, 3½, 4½, 6¼, 7½, 12 and 14.
7. 1-10A, U.L. Recognized for 125 Vdc and 500 AIC. Other DC ratings are self-certified.

CE logo denotes compliance with European Union Low Voltage Directive (50-1000 Vac, 75-1500 Vdc). Refer to BIF document #8002 or contact Bussmann Application Engineering at 636-527-1270 for more information.

### Time-Current Characteristics

| Rated Current | Percent of Rating 110% | 135% | 200% |
|---|---|---|---|
| 1/20-30 | 4 hrs. (min) | 60 min. (max) | 120 sec. (max) |

### Packaging & Ordering Information:

| | | | | |
|---|---|---|---|---|
| | AGC | — | V | — (See Table) |
| **Package Code** **Blank** 5 in **BK/** 100 in | **Product Symbol** | | **Lead** **Blank -no lead** **V-Axial lead** | **Rated Current** |

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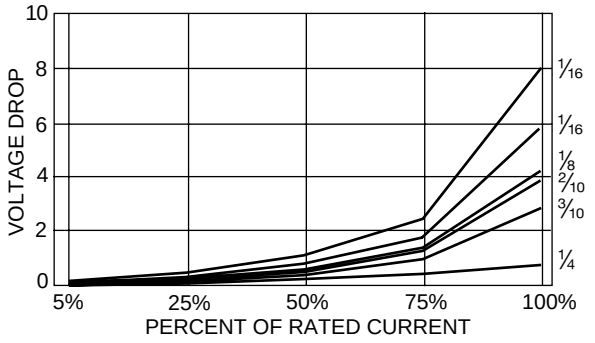
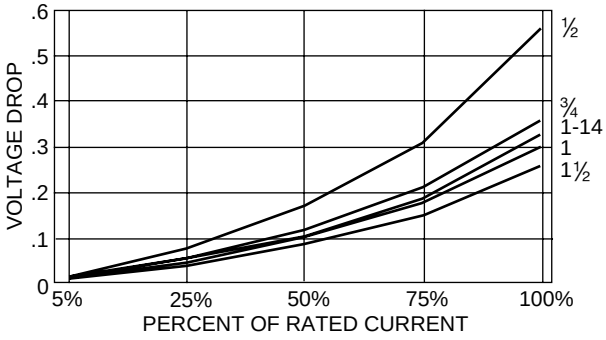
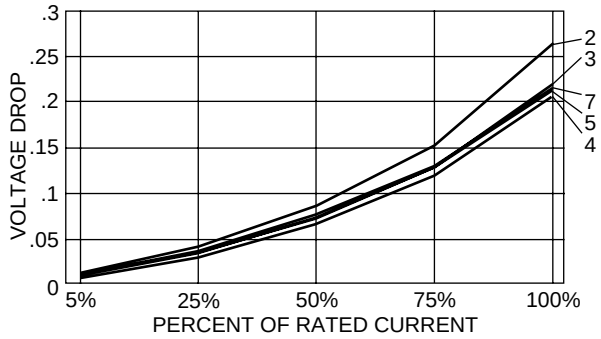
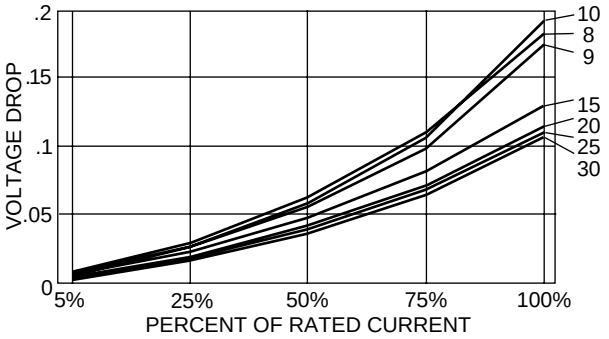
### 1.0 Typical Voltage Drop (At 25°C Ambient Temperture)

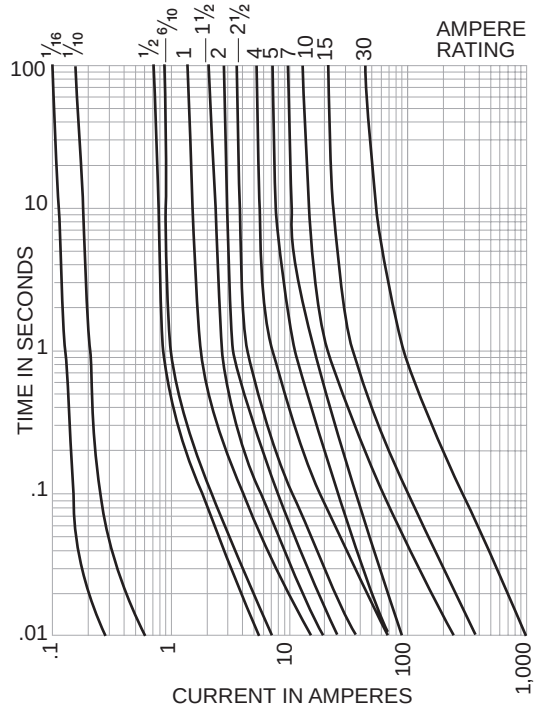



### Time-Current Characteristic Curves–Average Melt (Full Size Curves Available)




### 2.0 Ambient Temperature Effect Chart (Derating Curve)