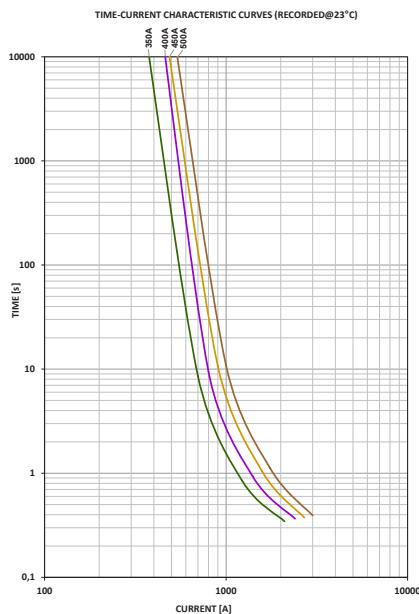
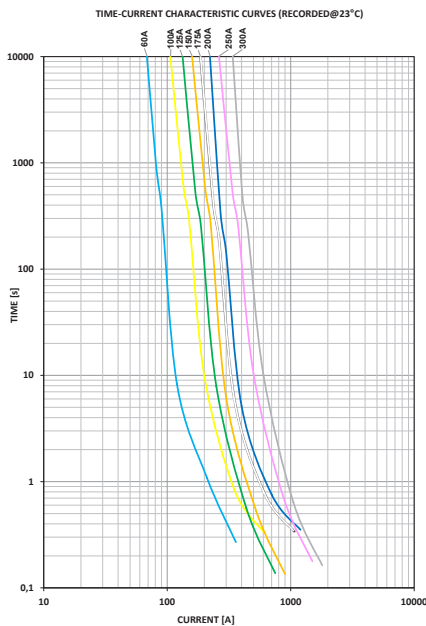


## Time-Current Characteristic Curves



## MEGA® High Performance Fuse Rated 70V-SF51

The MEGA® 70V-SF51 High Performance (HP) Fuse is designed for high current circuit protection up to 500A with "Diffusion Pill Technology." The MEGA 70V HP features 1MΩhm Open State Resistance after fuse opening to guarantee safe interruption at any voltage up to 70V. The MEGA® 70V HP Fuse is ideal for battery and alternator protection application and other heavy gauge cables requiring ultra-high current protection.

### Specifications

|                                            |                                       |
|--------------------------------------------|---------------------------------------|
| Interrupting Rating:                       | 2500A @ 70 VDC                        |
| Voltage Rating:                            | 70 VDC                                |
| Operating Temperature Range:               | -40°C to + 125°C                      |
| Housing Material:                          | PPA-GF33                              |
| Terminals:                                 | ETP Copper (Tin plated)               |
| Mounting Torque M6:                        | 9Nm+/-1Nm                             |
| Mounting Torque M8:                        | 20Nm+/-1Nm                            |
| Open State Resistance (after fuse opening) | >1MΩhm                                |
| Reference to:                              | ISO 20934 - Type SF56 (draft), LV 230 |

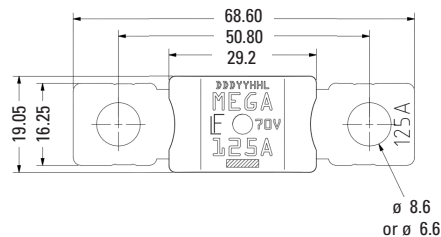
### RoHS

### Ordering Information

| Part Number    | Package Size | Rating   | Bolt Size | Bolt Hole Qty |
|----------------|--------------|----------|-----------|---------------|
| 0998xxx.UX-2M8 | 500          | 60 - 500 | M8        | 2             |
| 0998xxx.UX-1M8 | 500          | 60 - 500 | M8        | 1             |
| 0998xxx.UX-2M6 | 500          | 60 - 500 | M6        | 2             |
| 0998xxx.UX-1M6 | 500          | 60 - 500 | M6        | 1             |
| 0998xxx.UX-NH  | 500          | 60 - 500 | N/A       | 0             |

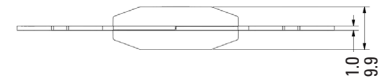
### Dimensions

Dimensions in mm



### Time-Current Characteristics

| % of Rating | Opening Time Min / Max (s) |                |               |
|-------------|----------------------------|----------------|---------------|
|             | 60-250A                    | 300A           | 350-500A      |
| 75          | -/-                        | 14,400 s / -   | 14,400 s / -  |
| 100         | 14,400 s / -               | -/-            | -/-           |
| 135         | 120 s / 1800 s             | 120 s / 1800 s | -/-           |
| 150         | 20 s / 450 s               | 20 s / 450 s   | -/-           |
| 200         | 1 s / 15 s                 | 1 s / 15 s     | 1 s / 15 s    |
| 350         | 0.3 s / 5 s                | 0.3 s / 5 s    | 0.500 s / 5 s |
| 600         | 0.100 s / 1 s              | 0.100 s / 1 s  | 0.100 s / 1 s |



### Ratings

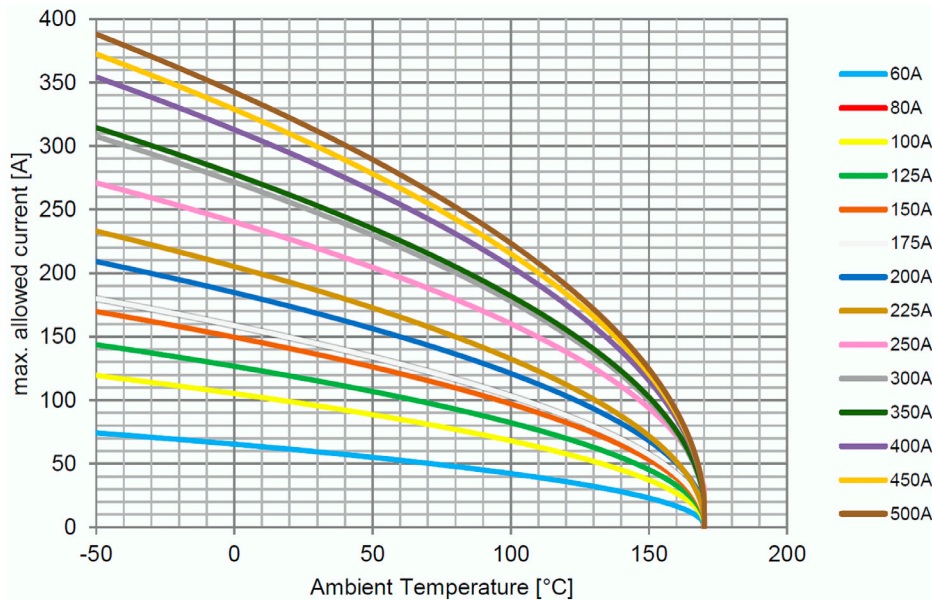
| Part Number | Current Rating (A) | Font Color | Rated Voltage (V) | Voltage Drop (mV) max. | Wire (mm²) | I²t (A²s) |
|-------------|--------------------|------------|-------------------|------------------------|------------|-----------|
| 0998060._   | 60                 | Blue       | 70                | 110                    | 6          | 22800     |
| 0998080._   | 80                 | Red        | 70                | 110                    | 10         | TBD       |
| 0998100._   | 100                | Yellow     | 70                | 110                    | 10         | 24000     |
| 0998125._   | 125                | Green      | 70                | 110                    | 16         | 38000     |
| 0998150._   | 150                | Orange     | 70                | 110                    | 25         | 58100     |
| 0998175._   | 175                | White      | 70                | 110                    | 25         | 79300     |
| 0998200._   | 200                | Blue       | 70                | 110                    | 35         | 123600    |
| 0998225._   | 225                | Brown      | 70                | 110                    | 35         | 142500    |
| 0998250._   | 250                | Pink       | 70                | 110                    | 50         | 220000    |
| 0998300._   | 300                | Grey       | 70                | 80                     | 50         | 340000    |
| 0998350._   | 350                | Black      | 70                | 80                     | 50         | 495000    |
| 0998400._   | 400                | Purple     | 70                | 80                     | 70         | 872000    |
| 0998450._   | 450                | Gold       | 70                | 80                     | 70         | 1224000   |
| 0998500._   | 500                | Brown      | 70                | 80                     | 70         | 1800000   |

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# High Current Fuses

## MEGA® High Performance Fuse Rated 70V-SF51

### Typical Derating

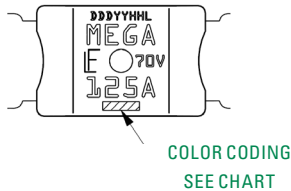


Temperature Security Margin is 20%

Wire Cross Sections And Test Fixture acc. ISO 20934

### Temperature Table

|      | max. allowed current load [A] at ambient temperature |     |      |      |      |      |       |       |
|------|------------------------------------------------------|-----|------|------|------|------|-------|-------|
|      | -20°C                                                | 0°C | 20°C | 65°C | 85°C | 95°C | 105°C | 125°C |
| 60A  | 69                                                   | 65  | 61   | 52   | 46   | 44   | 41    | 34    |
| 80A  |                                                      |     |      |      |      |      |       |       |
| 100A | 111                                                  | 105 | 99   | 83   | 75   | 70   | 66    | 55    |
| 125A | 134                                                  | 127 | 119  | 100  | 90   | 85   | 79    | 66    |
| 150A | 158                                                  | 150 | 141  | 118  | 107  | 100  | 94    | 78    |
| 175A | 168                                                  | 159 | 149  | 126  | 113  | 107  | 100   | 84    |
| 200A | 195                                                  | 185 | 174  | 147  | 133  | 125  | 117   | 98    |
| 225A | 217                                                  | 205 | 193  | 162  | 146  | 137  | 128   | 107   |
| 250A | 253                                                  | 240 | 227  | 192  | 175  | 165  | 155   | 132   |
| 300A | 287                                                  | 272 | 256  | 216  | 195  | 184  | 172   | 145   |
| 350A | 293                                                  | 278 | 262  | 221  | 200  | 188  | 176   | 148   |
| 400A | 330                                                  | 313 | 295  | 248  | 225  | 212  | 198   | 167   |
| 450A | 347                                                  | 329 | 310  | 261  | 236  | 222  | 208   | 175   |
| 500A | 361                                                  | 342 | 322  | 271  | 245  | 231  | 216   | 181   |



## MEGA® High Performance Fuse Rated 70V-SF56

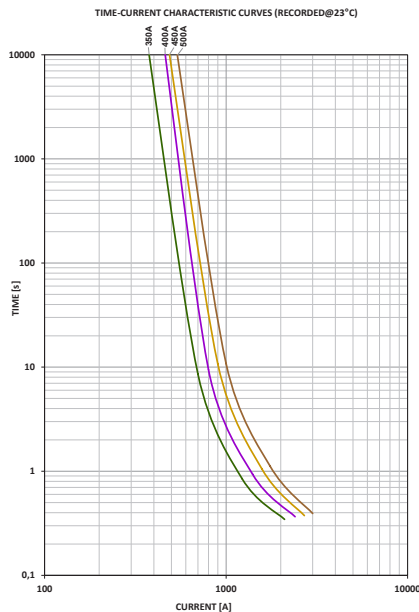
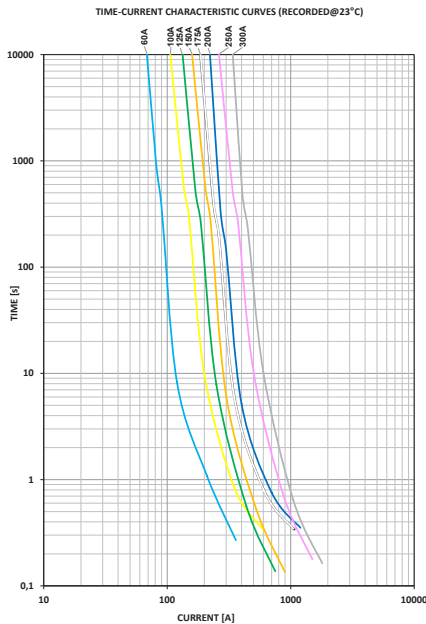
The MEGA® 70V-SF56 High Performance (HP) Fuse is designed for high current circuit protection up to 500A with "Diffusion Pill Technology." The MEGA 70V HP features 1MΩhm Open State Resistance after fuse opening to guarantee safe interruption at any voltage up to 70V. The MEGA® 70V HP Fuse is ideal for battery and alternator protection application and other heavy gauge cables requiring ultra-high current protection. The bigger pitch of 56mm serves as a mechanical coding feature to avoid standard SF51 fuses being mounted.

### Specifications

|                                            |                                       |
|--------------------------------------------|---------------------------------------|
| Interrupting Rating:                       | 2500A @ 70 VDC                        |
| Voltage Rating:                            | 70 VDC                                |
| Operating Temperature Range:               | -40°C to + 125°C                      |
| Housing Material:                          | PPA-GF33                              |
| Terminals:                                 | ETP Copper (Tin plated)               |
| Mounting Torque M6:                        | 9Nm+/-1Nm                             |
| Mounting Torque M8:                        | 20Nm+/-1Nm                            |
| Open State Resistance (after fuse opening) | >1MΩhm                                |
| Reference to:                              | ISO 20934 - Type SF56 (draft), LV 230 |

### RoHS

### Time-Current Characteristic Curves

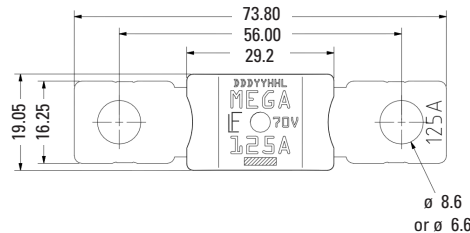


### Ordering Information

| Part Number   | Package Size | Rating   | Bolt Size | Bolt Hole Qty |
|---------------|--------------|----------|-----------|---------------|
| 0898xxx.U-2M8 | 500          | 60 - 500 | M8        | 2             |
| 0898xxx.U-1M8 | 500          | 60 - 500 | M8        | 1             |
| 0898xxx.U-2M6 | 500          | 60 - 500 | M6        | 2             |
| 0898xxx.U-1M6 | 500          | 60 - 500 | M6        | 1             |
| 0898xxx.U-NH  | 500          | 60 - 500 | N/A       | 0             |

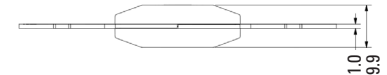
### Dimensions

Dimensions in mm



### Time-Current Characteristics

| % of Rating | Opening Time Min / Max (s) |                |               |
|-------------|----------------------------|----------------|---------------|
|             | 60-250A                    | 300A           | 350-500A      |
| 75          | -/-                        | 14,400 s / -   | 14,400 s / -  |
| 100         | 14,400 s / -               | -/-            | -/-           |
| 135         | 120 s / 1800 s             | 120 s / 1800 s | -/-           |
| 150         | 20 s / 450 s               | 20 s / 450 s   | -/-           |
| 200         | 1 s / 15 s                 | 1 s / 15 s     | 1 s / 15 s    |
| 350         | 0.3 s / 5 s                | 0.3 s / 5 s    | 0.500 s / 5 s |
| 600         | 0.100 s / 1 s              | 0.100 s / 1 s  | 0.100 s / 1 s |



### Ratings

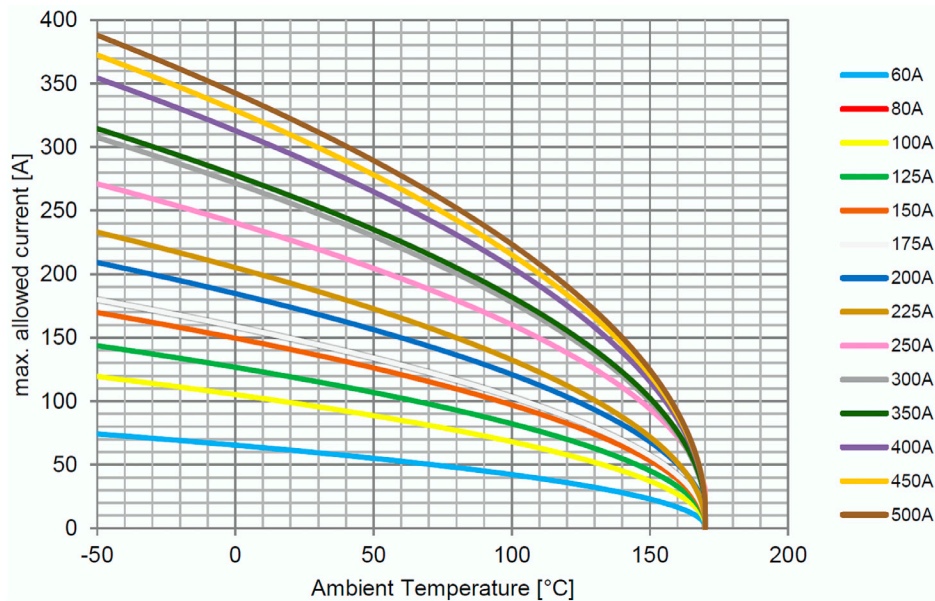
| Part Number | Current Rating (A) | Color Code | Rated Voltage (V) | Voltage Drop (mV) max. | Wire (mm²) | I²t (A²s) |
|-------------|--------------------|------------|-------------------|------------------------|------------|-----------|
| 0898060._   | 60                 |            | 70                | 110                    | 6          | 22800     |
| 0898080._   | 80                 |            | 70                | 110                    | 10         | TBD       |
| 0898100._   | 100                |            | 70                | 110                    | 10         | 24000     |
| 0898125._   | 125                |            | 70                | 110                    | 16         | 38000     |
| 0898150._   | 150                |            | 70                | 110                    | 25         | 58100     |
| 0898175._   | 175                |            | 70                | 110                    | 25         | 79300     |
| 0898200._   | 200                |            | 70                | 110                    | 35         | 123600    |
| 0898225._   | 225                |            | 70                | 110                    | 35         | 142500    |
| 0898250._   | 250                |            | 70                | 110                    | 50         | 220000    |
| 0898300._   | 300                |            | 70                | 80                     | 50         | 340000    |
| 0898350._   | 350                |            | 70                | 80                     | 50         | 495000    |
| 0898400._   | 400                |            | 70                | 80                     | 70         | 872000    |
| 0898450._   | 450                |            | 70                | 80                     | 70         | 1224000   |
| 0898500._   | 500                |            | 70                | 80                     | 70         | 1800000   |

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# High Current Fuses

## MEGA® High Performance Fuse Rated 70V-SF56

### Typical Derating



Temperature Security Margin is 20%

Wire Cross Sections And Test Fixture acc. ISO 20934

### Temperature Table

|      | max. allowed current load [A] at ambient temperature |     |      |      |      |      |       |       |
|------|------------------------------------------------------|-----|------|------|------|------|-------|-------|
|      | -20°C                                                | 0°C | 20°C | 65°C | 85°C | 95°C | 105°C | 125°C |
| 60A  | 69                                                   | 65  | 61   | 52   | 46   | 44   | 41    | 34    |
| 80A  |                                                      |     |      |      |      |      |       |       |
| 100A | 111                                                  | 105 | 99   | 83   | 75   | 70   | 66    | 55    |
| 125A | 134                                                  | 127 | 119  | 100  | 90   | 85   | 79    | 66    |
| 150A | 158                                                  | 150 | 141  | 118  | 107  | 100  | 94    | 78    |
| 175A | 168                                                  | 159 | 149  | 126  | 113  | 107  | 100   | 84    |
| 200A | 195                                                  | 185 | 174  | 147  | 133  | 125  | 117   | 98    |
| 225A | 217                                                  | 205 | 193  | 162  | 146  | 137  | 128   | 107   |
| 250A | 253                                                  | 240 | 227  | 192  | 175  | 165  | 155   | 132   |
| 300A | 287                                                  | 272 | 256  | 216  | 195  | 184  | 172   | 145   |
| 350A | 293                                                  | 278 | 262  | 221  | 200  | 188  | 176   | 148   |
| 400A | 330                                                  | 313 | 295  | 248  | 225  | 212  | 198   | 167   |
| 450A | 347                                                  | 329 | 310  | 261  | 236  | 222  | 208   | 175   |
| 500A | 361                                                  | 342 | 322  | 271  | 245  | 231  | 216   | 181   |