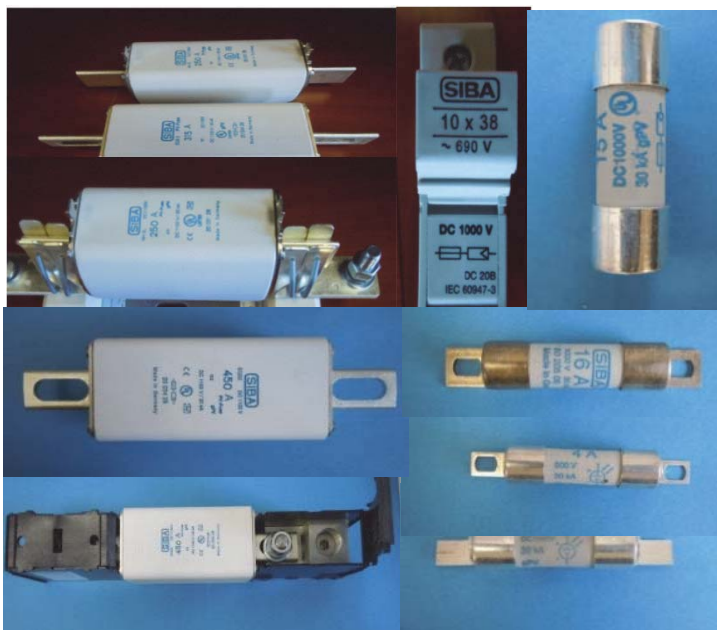


## URDC-PV

World leader in innovation of Fuses for PV Semiconductor Protection

Photo-Voltaic Systems - 600V<sub>DC</sub>, 1000V<sub>DC</sub>, 1100V<sub>DC</sub> and 1500V<sub>DC</sub>**Class:** gPV, gFP**Voltage ratings:** 600V<sub>DC</sub> to 1500V<sub>DC</sub>**Current ratings:** 1 A to 630 A**Standards:** UL 248-19  
IEC 60 269-6**Approvals:** E341342  
E341490

## Features and Benefits



High interrupting ratings up to 50kA

Low  $I^2t$  values

Fuse accessories available - Microswitches, Fuse Bases, Fuse Modules and Fuse Clips



Lowest power losses in the industry and highest cyclic load



Tested and approved by the world's largest PV inverter manufacturers

## URDC-PV

## Fuses for PV Semiconductor Protection

| Article Number      | Description                       |                              | Selection Guide | Technical Data |
|---------------------|-----------------------------------|------------------------------|-----------------|----------------|
| 600V <sub>DC</sub>  |                                   |                              |                 |                |
| 2018928             | NH00, DIN 80                      | No blown fuse indication     | 299             | 299 - 300      |
| 2018929             |                                   | With blown fuse indication   |                 |                |
| 2041229             |                                   | With fitting for microswitch |                 |                |
| 1000V <sub>DC</sub> |                                   |                              |                 |                |
| 5021526             | 10x38mm                           | No blown fuse indication     | 301             | 301 - 302      |
| 5021626             | 10x38mm - PCB Mount               |                              |                 |                |
| 5021726             | 10x38mm - 50.6mm mounting centers |                              |                 |                |
| 5021826             | 10x38mm - For cable connection    |                              |                 |                |
| 5021528             | 10x38mm                           | No blown fuse indication     | 303             | 303 - 304      |
| 5021628             | 10x38mm - PCB Mount               |                              |                 |                |
| 5021728             | 10x38mm - 50.6mm mounting centers |                              |                 |                |
| 5021828             | 10x38mm - For cable connection    |                              |                 |                |
| 5020426             | 14x51mm                           |                              | 305             | 305 - 306      |
| 5020526             | 14x51mm 63.5mm mounting centers   |                              |                 |                |
| 2054427             | SQB-DC101                         | With fitting for microswitch | 307             | 307 -308       |
| 2054527             | SQB-DC102                         | With fitting for microswitch | 309             | 309 - 310      |
| 2055620             | NH1                               | With blown fuse indication   | 311             | 311 - 312      |
| 2055621             |                                   | No blown fuse indication     |                 |                |
| 2055629             | NH1                               | With blown fuse indication   | 313             | 313 - 314      |
| 2055729             | NH2                               | With blown fuse indication   | 315             | 315 - 316      |
| 2056829             | NH3                               | With blown fuse indication   | 317             | 317 - 318      |
| 5021406             | 14x51mm (Ground Fault)            | With striker                 | 319             | 319 - 320      |
| 1100V <sub>DC</sub> |                                   |                              |                 |                |
| 5023526             | 14x65mm                           | No blown fuse indication     | 321             | 321 - 322      |
| 5023726             | 14x65mm - 77.5mm mounting centers |                              |                 |                |
| 5023826             | 10/14x85mm clip mounting          |                              |                 |                |
| 5023926             | 14x65mm for cable connection      |                              |                 |                |
| 5023528             | 14x65mm                           | No blown fuse indication     | 323             | 323 - 324      |
| 5023728             | 14x65mm - 77.5mm mounting centers |                              |                 |                |
| 5023828             | 10/14x85mm clip mounting          |                              |                 |                |
| 5023928             | 14x65mm for cable connection      |                              |                 |                |
| 2001927             | SQB1-M8                           | With fitting for microswitch | 325             | 325 - 326      |
| 2001928             |                                   | No blown fuse indication     |                 |                |
| 2002828             | NH1XL                             | No blown fuse indication     |                 |                |
| 2002829             |                                   | With fitting for microswitch |                 |                |
| 2003128             | NH3L                              | No blown fuse indication     | 327             | 327 - 328      |
| 2003129             |                                   | With fitting for microswitch |                 |                |
| 2003428             | SQB2 - US Short                   | No blown fuse indication     |                 |                |
| 2003429             |                                   | With fitting for microswitch |                 |                |
| 2023128             | NH3L                              | No blown fuse indication     | 329             | 329 - 330      |
| 2023129             |                                   | With fitting for microswitch |                 |                |
| 2023428             | SQB3 - US Short                   | No blown fuse indication     | 329             | 329 - 330      |
| 2023528             | SQB3 DIN 167mm                    | No blown fuse indication     |                 |                |
| 2023529             |                                   | With blown fuse indication   |                 |                |
| 1500V <sub>DC</sub> |                                   |                              |                 |                |
| 5011528             | 10.3x 85mm                        | No blown fuse indication     | 331             | 331 - 332      |
| 5024028             | 14x65mm                           | No blown fuse indication     | 333             | 333 - 334      |
| 5024228             | 14x65mm - 80mm                    |                              |                 |                |
| 5024328             | 10/14x65mm - 85mm                 |                              |                 |                |
| 5026028             | 22x65mm                           | No blown fuse indication     | 335             | 335 -336       |
| 5026228             | 22x65mm - 86.5mm                  | No blown fuse indication     |                 |                |
| 2004128             | NH1XL                             | No blown fuse indication     |                 |                |
| 2004129             |                                   | With blown fuse indication   |                 |                |
| 2004528             | SQB1 - US Short                   | No blown fuse indication     |                 |                |

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## URDC-PV

## Fuses for PV Semiconductor Protection

| Article Number            | Description      | Selection Guide            | Technical Data       |
|---------------------------|------------------|----------------------------|----------------------|
| <b>1500V<sub>DC</sub></b> |                  |                            |                      |
| 2024328                   | NH3L             | No blown fuse indication   | 337<br><br>337 - 338 |
| 2024329                   |                  | With blown fuse indication |                      |
| 2024528                   | SQB3 - DIN 167mm | No blown fuse indication   |                      |
| 2024529                   |                  | With blown fuse indication |                      |
| 2024727                   | SQB3 - US Short  | With blown fuse indication |                      |
| 2024728                   |                  | No blown fuse indication   |                      |

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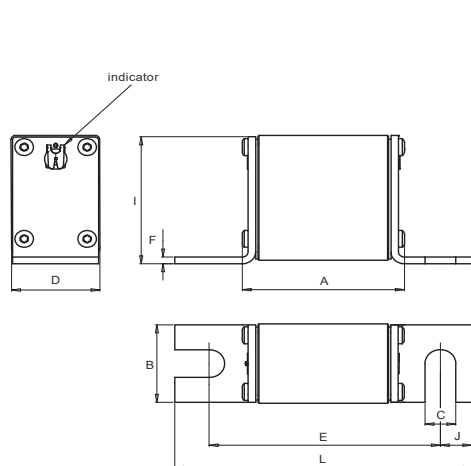
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e-mail: [info@sibafuse.com](mailto:info@sibafuse.com)

|            |                                         |                                  |                               |     |                          |
|------------|-----------------------------------------|----------------------------------|-------------------------------|-----|--------------------------|
| NH00-DIN80 | [U <sub>n</sub> ]<br>600V <sub>DC</sub> | Capacity<br>30kA @ L/R = 1 - 3ms | Voltage<br>600V <sub>DC</sub> | gPV | UL 248-19<br>IEC 60269-2 |
|------------|-----------------------------------------|----------------------------------|-------------------------------|-----|--------------------------|

| Rated current<br>I <sub>n</sub><br>[A] | Without indicator<br>Article Number | With top Indicator<br>Article Number | With top indicator<br>and fitting for<br>microswitch<br>Article Number |  | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t<br>@600V <sub>DC</sub><br>[A <sup>2</sup> s] | Power<br>loss<br>@ I <sub>n</sub><br>[W] |
|----------------------------------------|-------------------------------------|--------------------------------------|------------------------------------------------------------------------|--|------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------|
| 35                                     | 2018928.35                          | 2018929.35                           | 2041229.35                                                             |  | 62                                                   | 380                                                                    | 7.3                                      |
| 40                                     | 2018928.40                          | 2018929.40                           | 2041229.40                                                             |  | 105                                                  | 630                                                                    | 7.5                                      |
| 50                                     | 2018928.50                          | 2018929.50                           | 2041229.50                                                             |  | 160                                                  | 960                                                                    | 11.0                                     |
| 63                                     | 2018928.63                          | 2018929.63                           | 2041229.63                                                             |  | 250                                                  | 1 500                                                                  | 12.5                                     |
| 70                                     | 2018928.70                          | 2018929.70                           | 2041229.70                                                             |  | 415                                                  | 2 500                                                                  | 13.0                                     |
| 80                                     | 2018928.80                          | 2018929.80                           | 2041229.80                                                             |  | 520                                                  | 3 200                                                                  | 14.0                                     |
| 100                                    | 2018928.100                         | 2018929.100                          | 2041229.100                                                            |  | 1 000                                                | 6 000                                                                  | 15.5                                     |
| 110                                    | 2018928.110                         | 2018929.110                          | 2041229.110                                                            |  | 1 300                                                | 7 900                                                                  | 17.5                                     |
| 125                                    | 2018928.125                         | 2018929.125                          | 2041229.125                                                            |  | 1 650                                                | 10 000                                                                 | 20.0                                     |
| 160                                    | 2018928.160                         | 2018929.160                          | 2041229.160                                                            |  | 4 000                                                | 24 000                                                                 | 21.5                                     |
| Weight [kg / 1]                        |                                     |                                      |                                                                        |  |                                                      |                                                                        |                                          |
| 0.78                                   |                                     |                                      |                                                                        |  |                                                      |                                                                        |                                          |

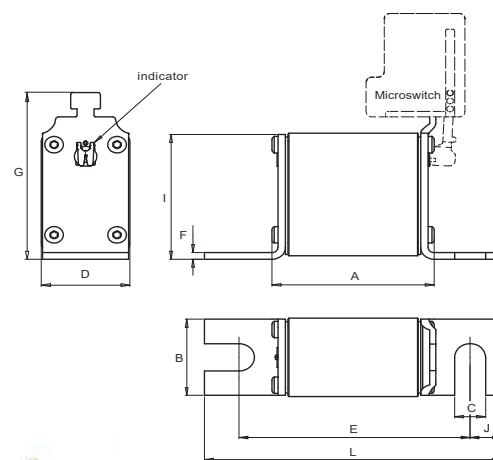
## Coefficients for Heavy Duty Applications

| a   | A2  | B1 <sub>max</sub> | B2  | Cf3 |
|-----|-----|-------------------|-----|-----|
| 130 | 0.8 | 1.25              | 0.5 | 0.8 |



2018928 / 2018929

| Dimensions<br>[in / mm] |             |
|-------------------------|-------------|
| A                       | 2.20 / 56   |
| B                       | 1.13 / 28.7 |
| C                       | 0.41 / 10.3 |
| D                       | 1.16 / 29.5 |
| E                       | 3.07 / 78   |
| F                       | 0.10 / 2.5  |
| G                       | 2.48 / 63   |
| I                       | 1.53 / 47   |
| J                       | 0.41 / 10.5 |
| L                       | 4.29 / 105  |



2041229

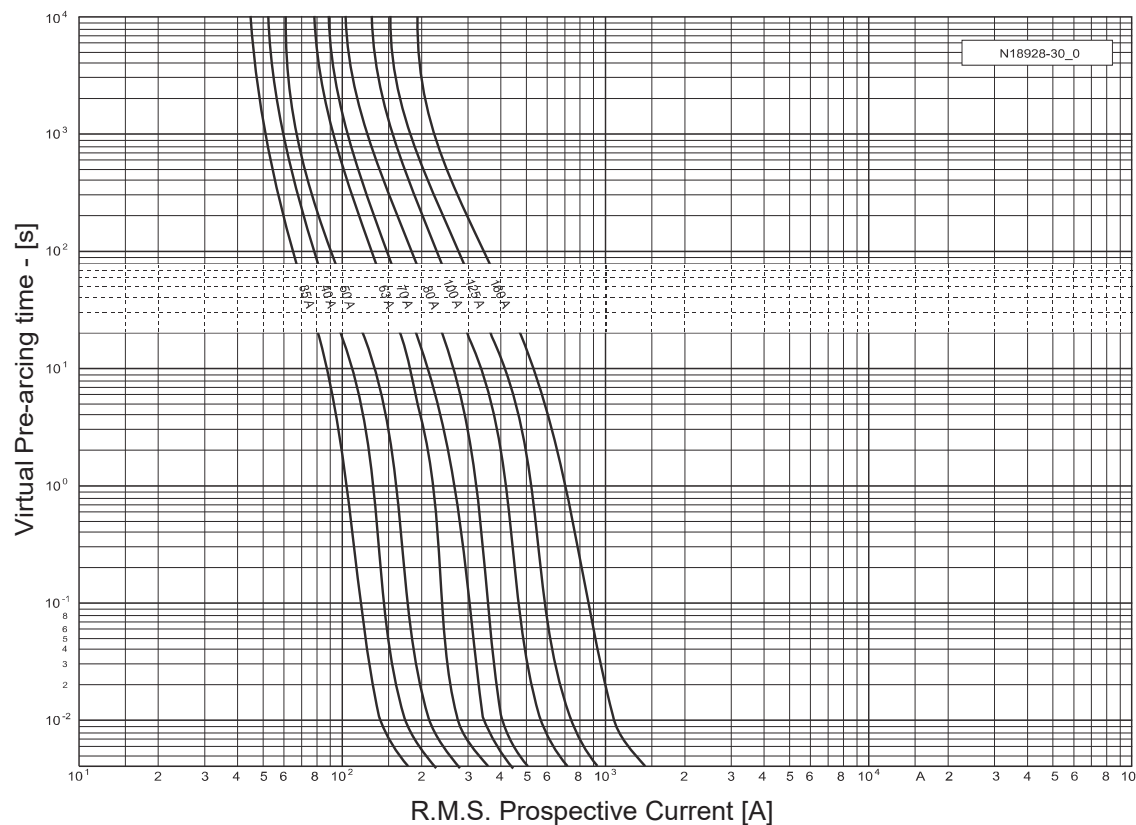


## Accessories

| Article Description                   | Article Number | Page | Article Description               | Article Number | Page |
|---------------------------------------|----------------|------|-----------------------------------|----------------|------|
| Fuse base DIN 80, use w/ microswitch  | 2118928        | 546  | for 2041229                       |                |      |
| Fuse base DIN 80, w/ insulated covers | 2118908        |      | Microswitch (black hammer), NO-NC |                |      |
|                                       |                |      | Standard level                    | 2800201        | 540  |
|                                       |                |      | UL file E309038                   |                |      |
|                                       |                |      |                                   |                |      |
|                                       |                |      |                                   |                |      |

| URDC-PV    | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test Class<br>Capacity | Standard(s)              |
|------------|------------------------------------|---------------------------------------|--------------------------|
| NH00-DIN80 | 600V <sub>DC</sub>                 | 30kA @ L/R = 1 - 3ms                  | UL 248-19<br>IEC 60269-2 |
|            |                                    | gPV                                   |                          |

Time-Current Characteristics



Full size graphs available upon request.

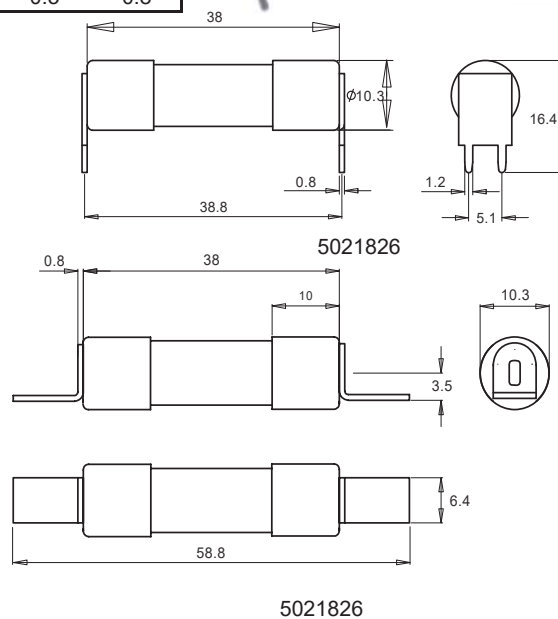
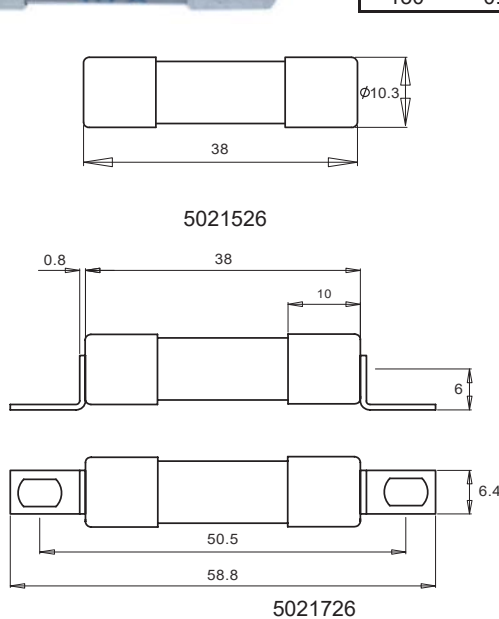
| URDC-PV                     | Rated Voltage<br>[U <sub>n</sub> ]<br>1000V <sub>DC</sub> | Rated Breaking Test<br>Capacity<br>30kA @ L/R = 2ms | Class<br>gR - UL<br>gPV - IEC | Standard(s)<br>UL 248-13<br>IEC 60269-6 |
|-----------------------------|-----------------------------------------------------------|-----------------------------------------------------|-------------------------------|-----------------------------------------|
| <b>10x38mm</b><br><b>US</b> |                                                           |                                                     |                               |                                         |
| <b>UL File E180276</b>      |                                                           |                                                     |                               |                                         |

| Rated current<br>I <sub>n</sub><br>[A] | Without indicator<br>Article Number | Without indicator<br>PCB<br>Article Number | Without indicator<br>50.6mm<br>mounting<br>Article Number | Without indicator<br>w/ offset tabs for<br>cable attachment<br>Article Number |  | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t<br>@1000V <sub>DC</sub><br>[A <sup>2</sup> s] | Power<br>loss<br>@ I <sub>n</sub><br>[W] |
|----------------------------------------|-------------------------------------|--------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------|--|------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------|
| 1                                      | 5021526.1                           | 5021626.1                                  | 5021726.1                                                 | 5021826.1                                                                     |  | 0.33                                                 |                                                                         | 0.8                                      |
| 1.6                                    | 5021526.1.6                         | 5021626.1.6                                | 5021726.1.6                                               | 5021826.1.6                                                                   |  | 1.5                                                  |                                                                         | 1.1                                      |
| 2                                      | 5021526.2                           | 5021626.2                                  | 5021726.2                                                 | 5021826.2                                                                     |  | 3                                                    |                                                                         | 1.2                                      |
| 3                                      | 5021526.3                           | 5021626.3                                  | 5021726.3                                                 | 5021826.3                                                                     |  | 12                                                   |                                                                         | 1.6                                      |
| 3.5                                    | 5021526.3.5                         | 5021626.3.5                                | 5021726.3.5                                               | 5021826.3.5                                                                   |  | 8                                                    |                                                                         | 1.5                                      |
| 4                                      | 5021526.4                           | 5021626.4                                  | 5021726.4                                                 | 5021826.4                                                                     |  | 10                                                   |                                                                         | 1.8                                      |
| 5                                      | 5021526.5                           | 5021626.5                                  | 5021726.5                                                 | 5021826.5                                                                     |  | 20                                                   |                                                                         | 2                                        |
| 6                                      | 5021526.6                           | 5021626.6                                  | 5021726.6                                                 | 5021826.6                                                                     |  | 45                                                   |                                                                         | 2.5                                      |
| 8                                      | 5021526.8                           | 5021626.8                                  | 5021726.8                                                 | 5021826.8                                                                     |  | 5                                                    |                                                                         | 1.6                                      |
| 10                                     | 5021526.10                          | 5021626.10                                 | 5021726.10                                                | 5021826.10                                                                    |  | 7                                                    |                                                                         | 2                                        |
| 12                                     | 5021526.12                          | 5021626.12                                 | 5021726.12                                                | 5021826.12                                                                    |  | 10                                                   |                                                                         | 2.4                                      |
| 15                                     | 5021526.15                          | 5021626.15                                 | 5021726.15                                                | 5021826.15                                                                    |  | 30                                                   |                                                                         | 1.9                                      |
| 16                                     | 5021526.16                          | 5021626.16                                 | 5021726.16                                                | 5021826.16                                                                    |  | 30                                                   |                                                                         | 2.1                                      |
| 20                                     | 5021526.20                          | 5021626.20                                 | 5021726.20                                                | 5021826.20                                                                    |  | 52                                                   |                                                                         | 2.5                                      |

Power loss limit of fuse base has to be considered



| Coefficients for Heavy Duty Applications |     |                   |     |     |
|------------------------------------------|-----|-------------------|-----|-----|
| a                                        | A2  | B1 <sub>max</sub> | B2  | Cf3 |
| 130                                      | 0.8 | 1.25              | 0.5 | 0.8 |



### Accessories

| Article Description                       | Article Number | Page | Article Description       | Article Number | Page |
|-------------------------------------------|----------------|------|---------------------------|----------------|------|
| Fuse module 1-Pole                        | 5106305.1DC    | 557  | Fuse clips PCB mounting   | 5806316        | 563  |
| Fuse module 1-Pole w/ neon lamp indicator | 5106305.1LDC   |      | Fuse clips PCB mounting   | 5806319        |      |
| Fuse module 2-Pole                        | 5106305.2DC    |      | Fuse clips screw mounting | 5806317        |      |
| Fuse module 2-Pole w/ neon lamp indicator | 5106305.2LDC   |      |                           |                |      |
|                                           |                |      |                           |                |      |
|                                           |                |      |                           |                |      |

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URDC-PV

Rated Voltage

Rated Breaking Test

Class

Standard(s)

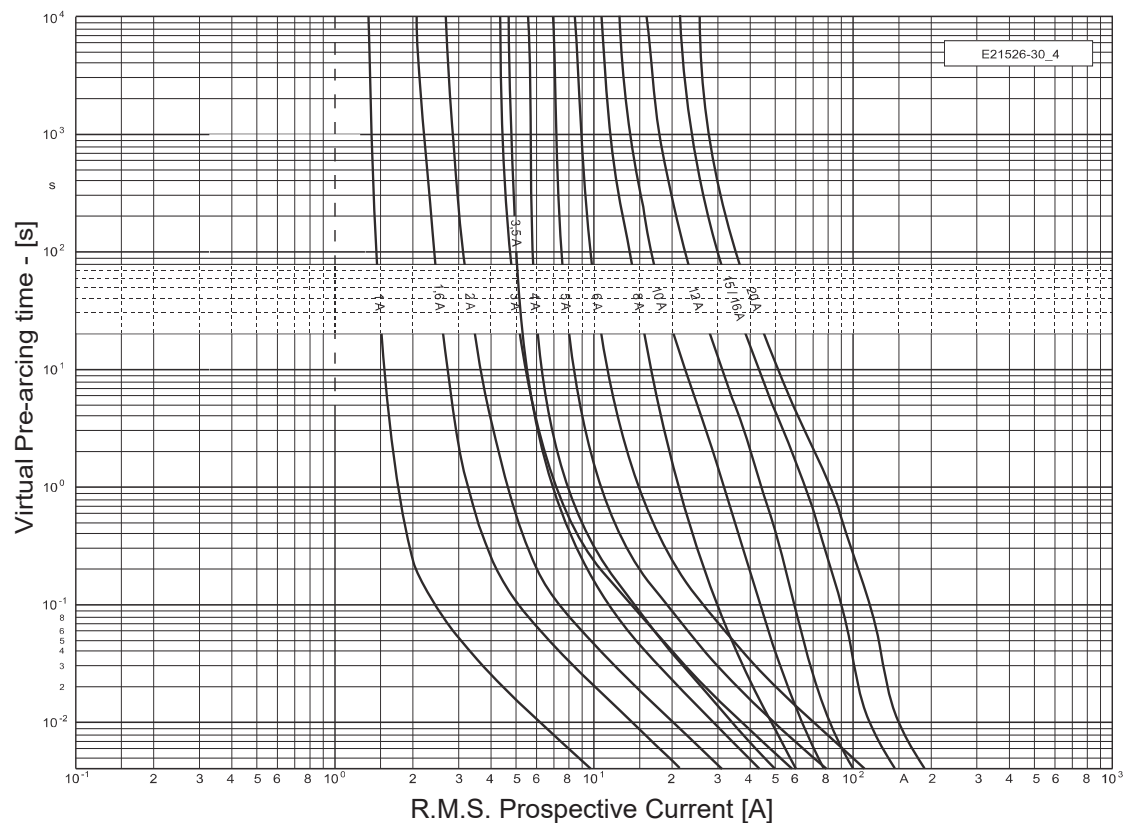


10x38mm

[U<sub>n</sub>]  
1000V<sub>DC</sub>Capacity  
30kA @ L/R = 2msVoltage  
1000V<sub>DC</sub>gR - UL  
gPV - IECUL 248-13  
IEC 60269-6

UL File E180276

## Time-Current Characteristics



Full size graphs available upon request.

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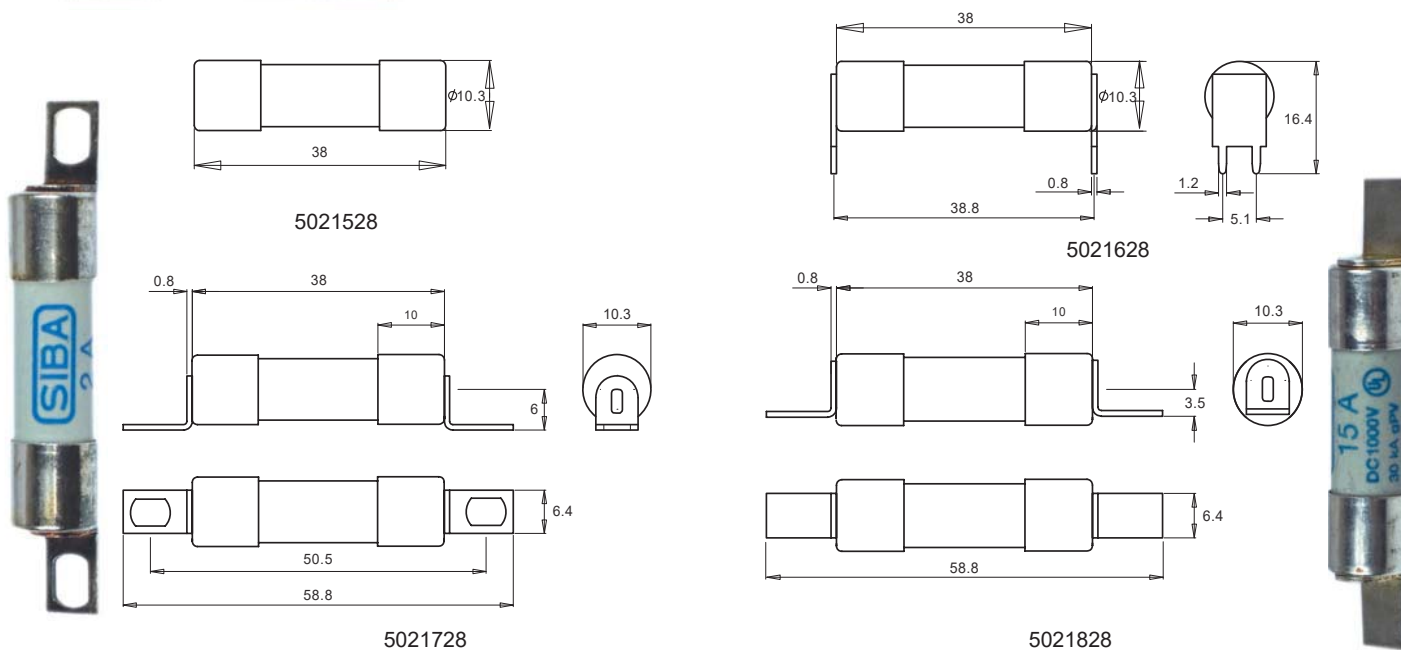
| URDC-PV                                                                                   | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test<br>Capacity | Class<br>gPV | Standard(s)              |
|-------------------------------------------------------------------------------------------|------------------------------------|---------------------------------|--------------|--------------------------|
|  10x38mm | 1000V <sub>DC</sub>                | 30kA @ L/R = 1 - 3ms            |              | UL 248-19<br>IEC 60269-6 |
| UL File E341342                                                                           |                                    |                                 |              |                          |

| Rated current<br>I <sub>n</sub><br>[A] | Without indicator<br>Article Number | Without indicator<br>PCB<br>Article Number | Without indicator<br>50.6mm<br>mounting<br>Article Number | Without indicator<br>w/ offset tabs for<br>cable attachment<br>Article Number |  | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t<br>@ 1000V <sub>DC</sub><br>[A <sup>2</sup> s] | Power<br>loss<br>@ I <sub>n</sub><br>[W] |
|----------------------------------------|-------------------------------------|--------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------|--|------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------|
| 1                                      | 5021528.1                           | 5021628.1                                  | 5021728.1                                                 | 5021828.1                                                                     |  | 0.33                                                 |                                                                          | 0.8                                      |
| 2                                      | 5021528.2                           | 5021628.2                                  | 5021728.2                                                 | 5021828.2                                                                     |  | 1.9                                                  |                                                                          | 1.7                                      |
| 3.5                                    | 5021528.3.5                         | 5021628.3.5                                | 5021728.3.5                                               | 5021828.3.5                                                                   |  | 8                                                    |                                                                          | 1.5                                      |
| 4                                      | 5021528.4                           | 5021628.4                                  | 5021728.4                                                 | 5021828.4                                                                     |  | 10                                                   |                                                                          | 1.8                                      |
| 5                                      | 5021528.5                           | 5021628.5                                  | 5021728.5                                                 | 5021828.5                                                                     |  | 20                                                   |                                                                          | 2                                        |
| 8                                      | 5021528.5                           | 5021628.8                                  | 5021728.8                                                 | 5021828.8                                                                     |  | 3                                                    |                                                                          | 1.8                                      |
| 10                                     | 5021528.10                          | 5021628.10                                 | 5021728.10                                                | 5021828.10                                                                    |  | 5                                                    |                                                                          | 2.3                                      |
| 12                                     | 5021528.12                          | 5021628.12                                 | 5021728.12                                                | 5021828.12                                                                    |  | 9                                                    |                                                                          | 2.9                                      |
| 15                                     | 5021528.15                          | 5021628.15                                 | 5021728.15                                                | 5021828.15                                                                    |  | 17                                                   |                                                                          | 3.3                                      |
| 16                                     | 5021528.16                          | 5021628.16                                 | 5021728.16                                                | 5021828.16                                                                    |  | 20                                                   |                                                                          | 3.4                                      |
| 20                                     | 5021528.20                          | 5021628.20                                 | 5021728.20                                                | 5021828.20                                                                    |  | 40                                                   |                                                                          | 3.9                                      |

Power loss limit of fuse base has to be considered



| Coefficients for Heavy Duty Applications |     |                   |     |     |
|------------------------------------------|-----|-------------------|-----|-----|
| a                                        | A2  | B1 <sub>max</sub> | B2  | Cf3 |
| 130                                      | 0.8 | 1.25              | 0.5 | 0.8 |



### Accessories

| Article Description                       | Article Number | Page | Article Description       | Article Number | Page |
|-------------------------------------------|----------------|------|---------------------------|----------------|------|
| Fuse module 1-Pole                        | 5106305.1DC    | 557  | Fuse clips PCB mounting   | 5806316        | 363  |
| Fuse module 1-Pole w/ neon lamp indicator | 5106305.1LDC   |      | Fuse clips PCB mounting   | 5806319        |      |
| Fuse module 2-Pole                        | 5106305.2DC    |      | Fuse clips screw mounting | 5806317        |      |
| Fuse module 2-Pole w/ neon lamp indicator | 5106305.2LDC   |      |                           |                |      |
|                                           |                |      |                           |                |      |
|                                           |                |      |                           |                |      |

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URDC-PV



10x38mm

Rated Voltage

[U<sub>n</sub>]1000V<sub>DC</sub>

Rated Breaking Test

Capacity

30kA @ L/R = 1 - 3ms

Voltage

1000V<sub>DC</sub>

Class

gPV

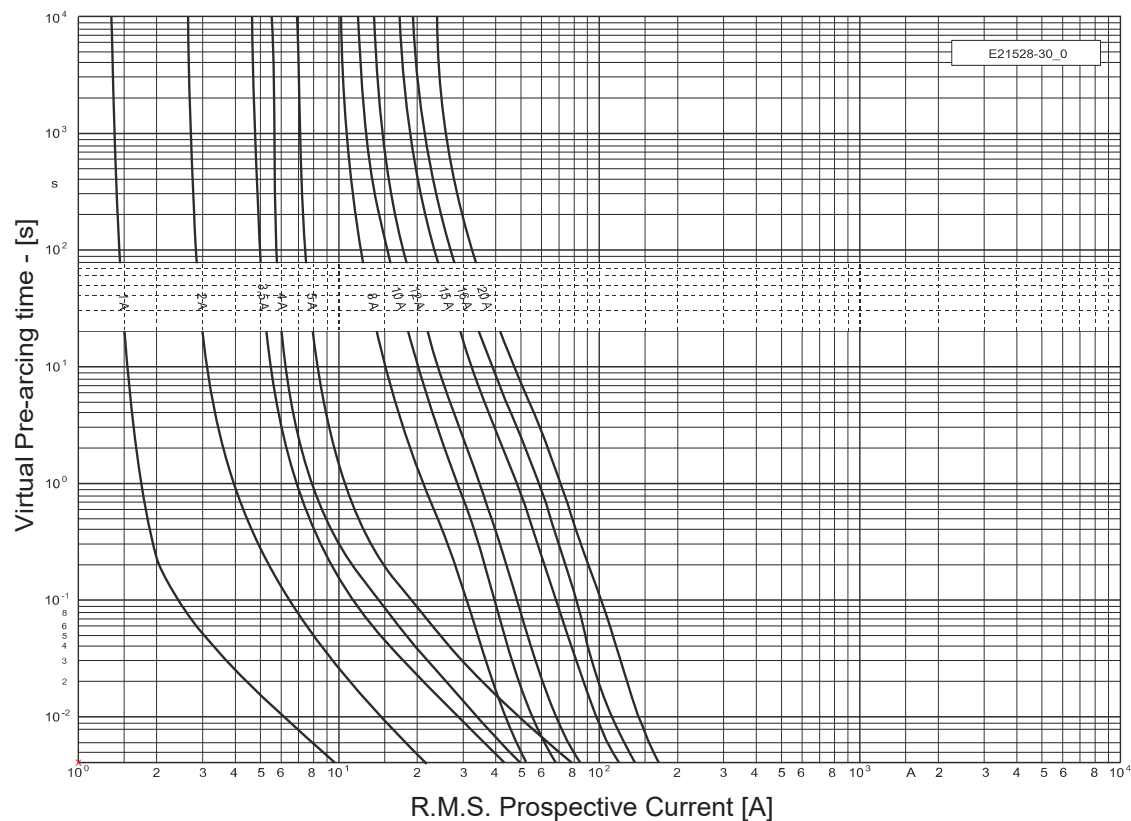
Standard(s)

UL 248-19

IEC 60269-6

UL File E341342

## Time-Current Characteristics



Full size graphs available upon request.

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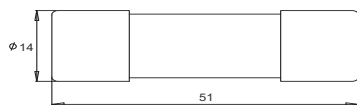
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e-mail: [info@sibafuse.com](mailto:info@sibafuse.com)

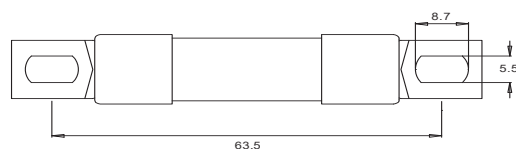
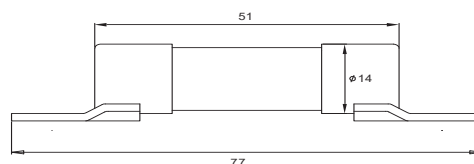
| URDC-PV                                |                                     | Rated Voltage<br>[U <sub>n</sub> ]<br>14x51mm          | Rated Breaking Test<br>Capacity<br>30kA @ L/R = 1 - 3ms | Voltage<br>1000V <sub>DC</sub> | Class<br>gPV                                         | Standard(s)<br>IEC 60269-6                                              |                                          |
|----------------------------------------|-------------------------------------|--------------------------------------------------------|---------------------------------------------------------|--------------------------------|------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------|
| Rated current<br>I <sub>n</sub><br>[A] | Without indicator<br>Article Number | Without indicator<br>63.5mm mounting<br>Article Number |                                                         |                                | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t<br>@1000V <sub>DC</sub><br>[A <sup>2</sup> s] | Power<br>loss<br>@ I <sub>n</sub><br>[W] |
| 10                                     | 5020426.10                          | 5020526.10                                             |                                                         |                                | 5                                                    | 40                                                                      | 2.9                                      |
| 12                                     | 5020426.12                          | 5020526.12                                             |                                                         |                                | 12                                                   | 100                                                                     | 3                                        |
| 16                                     | 5020426.16                          | 5020526.16                                             |                                                         |                                | 30                                                   | 200                                                                     | 3.2                                      |
| 20                                     | 5020426.20                          | 5020526.20                                             |                                                         |                                | 52                                                   | 330                                                                     | 4                                        |
| 25                                     | 5020426.25                          | 5020526.25                                             |                                                         |                                | 82                                                   | 510                                                                     | 5.1                                      |
| 32                                     | 5020426.32                          | 5020526.32                                             |                                                         |                                | 150                                                  | 950                                                                     | 6                                        |

Power loss limit of fuse base has to be considered

| Coefficients for Heavy Duty Applications |     |                   |     |     |  |
|------------------------------------------|-----|-------------------|-----|-----|--|
| a                                        | A2  | B1 <sub>max</sub> | B2  | Cf3 |  |
| 130                                      | 0.9 | 1.25              | 0.5 | 0.8 |  |



5020406



5020506

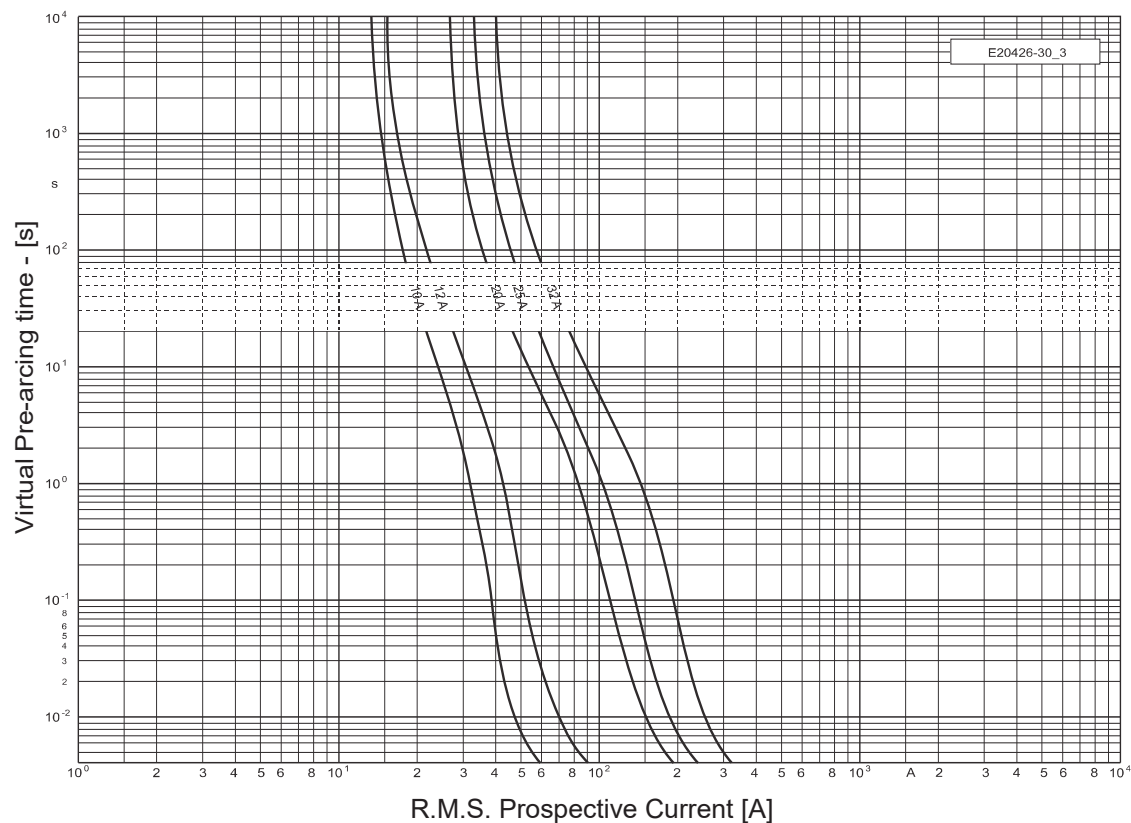


### Accessories

| Article Description          | Article Number | Page | Article Description | Article Number | Page |
|------------------------------|----------------|------|---------------------|----------------|------|
| Fuse clips screw mounting    | 6100101.2      | 563  |                     |                |      |
| Clamping plate for 6100101.2 | 6301701        |      |                     |                |      |
| Fuse clips PCB mounting      | 5805806        |      |                     |                |      |
|                              |                |      |                     |                |      |
|                              |                |      |                     |                |      |

| URDC-PV | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test Class<br>Capacity | Standard(s)     |
|---------|------------------------------------|---------------------------------------|-----------------|
| 14x51mm | 1000V <sub>DC</sub>                | 30kA @ L/R = 1 - 3ms                  | gPV IEC 60269-6 |

Time-Current Characteristics



Full size graphs available upon request.

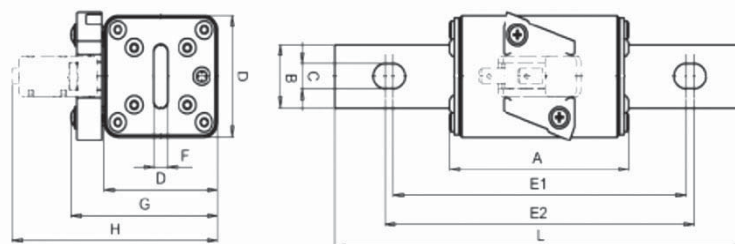
| URDC-PV   | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test<br>Capacity | Class<br>gPV | Standard(s)              |
|-----------|------------------------------------|---------------------------------|--------------|--------------------------|
| SQB-DC101 | 1000V <sub>DC</sub>                | 30kA @ L/R = 2ms                |              | UL 248-19<br>IEC 60269-6 |

| Rated current<br>I <sub>n</sub><br>[A] | With indicator<br>and fitting for<br>microswitch<br>Article Number |  | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t*<br>@1000V <sub>DC</sub><br>[A <sup>2</sup> s] | Power<br>loss<br>@ I <sub>n</sub><br>[W] |
|----------------------------------------|--------------------------------------------------------------------|--|------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------|
| 100                                    | 2054427.100                                                        |  | 1 700                                                | 6 500                                                                    | 19                                       |
| 125                                    | 2054427.125                                                        |  | 3 700                                                | 14 200                                                                   | 23                                       |
| 160                                    | 2054427.160                                                        |  | 5 600                                                | 21 500                                                                   | 26                                       |
| 200                                    | 2054427.200                                                        |  | 9 900                                                | 38 000                                                                   | 32                                       |
| 250                                    | 2054427.250                                                        |  | 18 500                                               | 61 000                                                                   | 40                                       |
| 300                                    | 2054427.300                                                        |  | 27 000                                               | 120 000                                                                  | 53                                       |

\* L/R = 2ms

| Coefficients for Heavy Duty Applications |     |                   |     |     |  |
|------------------------------------------|-----|-------------------|-----|-----|--|
| a                                        | A2  | B1 <sub>max</sub> | B2  | Cf3 |  |
| 130                                      | 0.8 | 1.25              | 0.5 | 0.8 |  |

| Dimensions<br>[in /mm] |             |
|------------------------|-------------|
| A                      | 3.15 / 80   |
| B                      | 1.02 / 26   |
| C                      | 0.41 / 10.3 |
| D                      | 1.97 / 50   |
| E1                     | 5.12 / 130  |
| E2                     | 5.39 / 137  |
| F                      | 0.24 / 6    |
| G                      | 2.60 / 66   |
| H                      | 3.50 / 89   |
| L                      | 7.13 / 181  |

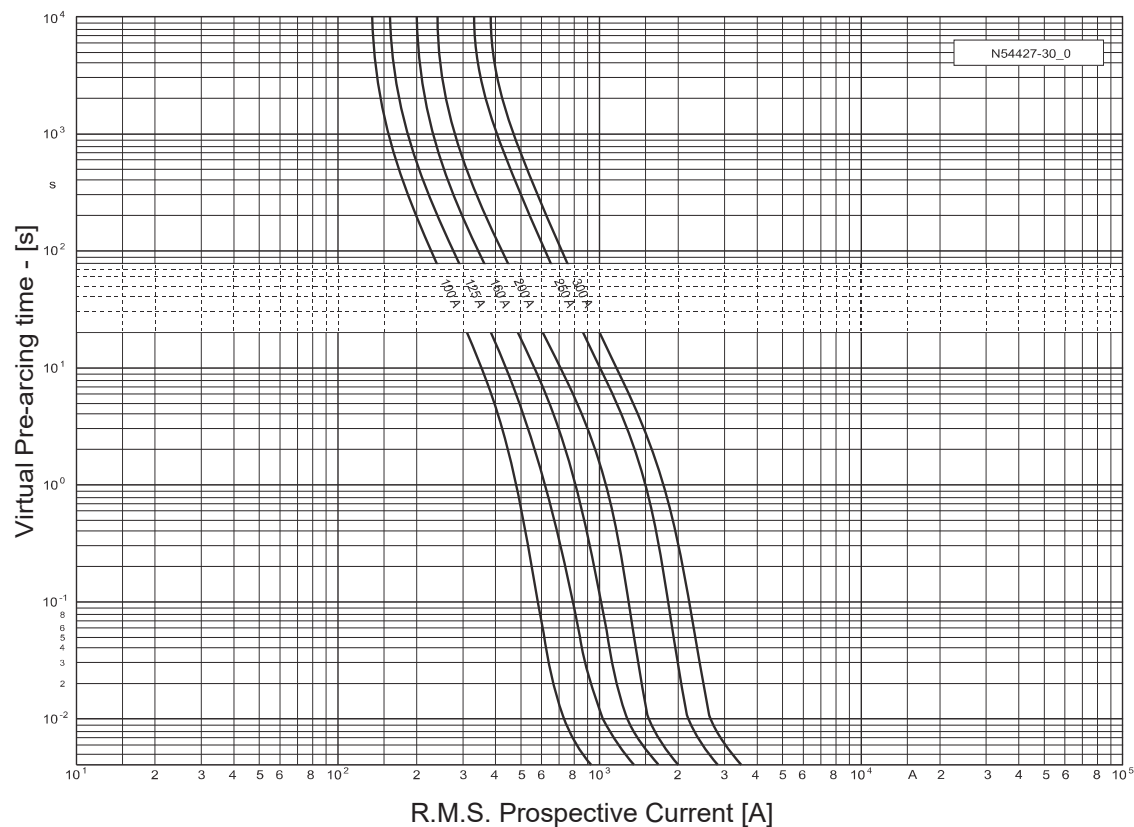


### Accessories

| Article Description | Article Number | Page | Article Description             | Article Number | Page |
|---------------------|----------------|------|---------------------------------|----------------|------|
|                     |                |      | Microswitch - NO-NC, UL E309038 |                |      |
|                     |                |      | Standard level                  | 2800114        | 541  |
|                     |                |      | Low level                       | 2801114        |      |
|                     |                |      |                                 |                |      |
|                     |                |      |                                 |                |      |
|                     |                |      |                                 |                |      |

| URDC-PV   | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test<br>Capacity | Class<br>gPV | Standard(s)              |
|-----------|------------------------------------|---------------------------------|--------------|--------------------------|
| SQB-DC101 | 1000V <sub>DC</sub>                | 30kA @ L/R = 2ms                |              | UL 248-19<br>IEC 60269-6 |

Time-Current Characteristics



Full size graphs available upon request.

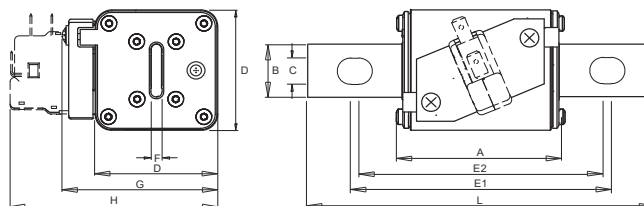
| URDC-PV   | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test<br>Capacity | Class<br>gPV | Standard(s)              |
|-----------|------------------------------------|---------------------------------|--------------|--------------------------|
| SQB-DC102 | 1000V <sub>DC</sub>                | 30kA @ L/R = 2ms                |              | UL 248-19<br>IEC 60269-6 |

| Rated current<br>I <sub>n</sub><br>[A] | With indicator<br>and fitting for<br>microswitch<br>Article Number |  | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t*<br>@1000V <sub>DC</sub><br>[A <sup>2</sup> s] | Power<br>I <sub>pss</sub><br>@ I <sub>n</sub><br>[W] |
|----------------------------------------|--------------------------------------------------------------------|--|------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------|
| 200                                    | 2054527.200                                                        |  | 9 900                                                | 47 000                                                                   | 32                                                   |
| 250                                    | 2054527.250                                                        |  | 18 500                                               | 87 000                                                                   | 40                                                   |
| 300                                    | 2054527.300                                                        |  | 27 000                                               | 126 000                                                                  | 50                                                   |
| 350                                    | 2054527.350                                                        |  | 39 700                                               | 187 000                                                                  | 53                                                   |
| 400                                    | 2054527.400                                                        |  | 64 200                                               | 305 000                                                                  | 87                                                   |

\* L/R = 2ms

| Coefficients for Heavy Duty Applications |     |                   |     |     |
|------------------------------------------|-----|-------------------|-----|-----|
| a                                        | A2  | B1 <sub>max</sub> | B2  | Cf3 |
| 130                                      | 0.8 | 1.25              | 0.5 | 0.8 |

| Dimensions<br>[in /mm] |             |
|------------------------|-------------|
|                        | 2054457     |
| A                      | 3.15 / 80   |
| B                      | 1.02 / 26   |
| C                      | 0.41 / 10.3 |
| D                      | 2.32 / 59   |
| E2                     | 5.39 / 137  |
| F                      | 0.24 / 6    |
| G                      | 2.95 / 75   |
| H                      | 3.86 / 98   |
| L                      | 7.13 / 181  |

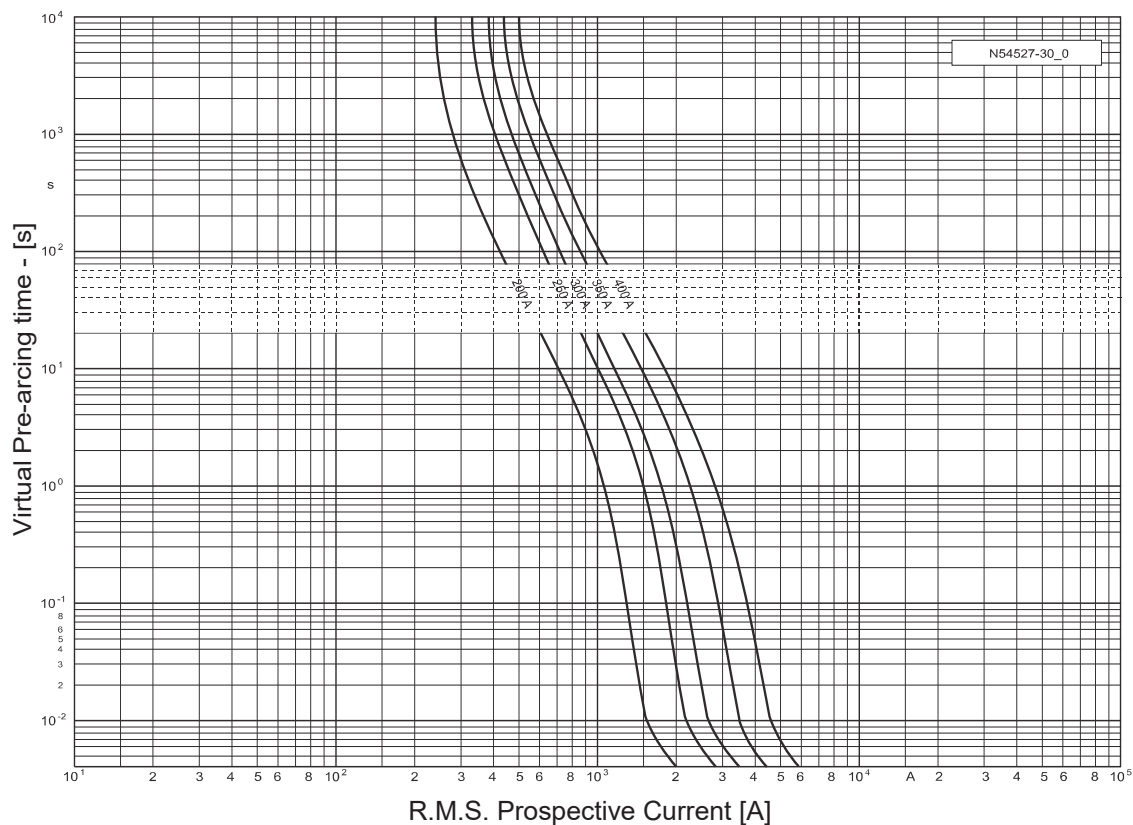


### Accessories

| Article Description | Article Number | Page | Article Description             | Article Number | Page |
|---------------------|----------------|------|---------------------------------|----------------|------|
|                     |                |      | Microswitch - N0-NC, UL E309038 |                |      |
|                     |                |      | Standard level                  | 2800114        | 541  |
|                     |                |      | Low level                       | 2801114        |      |
|                     |                |      |                                 |                |      |
|                     |                |      |                                 |                |      |

| URDC-PV   | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test |                     | Class | Standard(s) |
|-----------|------------------------------------|---------------------|---------------------|-------|-------------|
|           |                                    | Capacity            | Voltage             | gPV   | UL 248-19   |
| SQB-DC102 | 1000V <sub>DC</sub>                | 30kA @ L/R = 2ms    | 1000V <sub>DC</sub> |       | IEC 60269-6 |

### Time-Current Characteristics



Full size graphs available upon request.



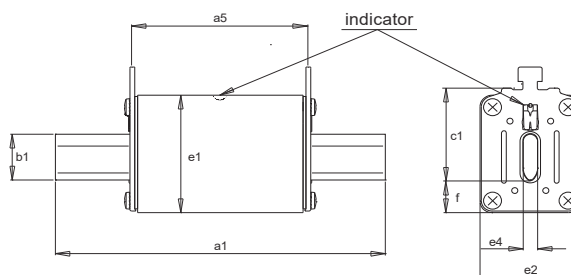
| URDC-PV | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test<br>Capacity | Class<br>gPV | Standard(s)<br>Following |
|---------|------------------------------------|---------------------------------|--------------|--------------------------|
| NH1     | 1000V <sub>DC</sub>                | 30kA @ L/R = 2ms                |              | IEC 60269-6<br>UL 2579   |

| Rated current<br>I <sub>n</sub><br>[A] | With indicator<br>Article Number | Without indicator<br>Article Number |  | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t*<br>@1000V <sub>DC</sub><br>[A <sup>2</sup> s] | Power<br>loss<br>@ I <sub>n</sub><br>[W] |
|----------------------------------------|----------------------------------|-------------------------------------|--|------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------|
| 50                                     | 2055620.50                       | 2055621.50                          |  | 251                                                  | 950                                                                      | 12                                       |
| 63                                     | 2055620.63                       | 2055621.63                          |  | 415                                                  | 1 600                                                                    | 14                                       |
| 80                                     | 2055620.80                       | 2055621.80                          |  | 740                                                  | 2 750                                                                    | 18                                       |
| 100                                    | 2055620.100                      | 2055621.100                         |  | 1 310                                                | 4 800                                                                    | 20                                       |
| 125                                    | 2055620.125                      | 2055621.125                         |  | 2 050                                                | 7 700                                                                    | 28                                       |
| 160                                    | 2055620.160                      | 2055621.160                         |  | 3 700                                                | 13 500                                                                   | 34                                       |

\* L/R = 2ms

| Coefficients for Heavy Duty Applications |     |                   |     |     |
|------------------------------------------|-----|-------------------|-----|-----|
| a                                        | A2  | B1 <sub>max</sub> | B2  | Cf3 |
| 130                                      | 0.8 | 1.25              | 0.5 | 0.8 |

| Dimensions<br>[in / mm] |             |
|-------------------------|-------------|
| a1                      | 5.31 / 135  |
| a5                      | 2.56 / 65   |
| b1                      | 0.79 / 20   |
| c1                      | 1.57 / 40   |
| e1                      | 2.03 / 51.5 |
| e2                      | 1.65 / 42   |
| e4                      | 0.24 / 6    |
| f                       | 0.55 / 14   |

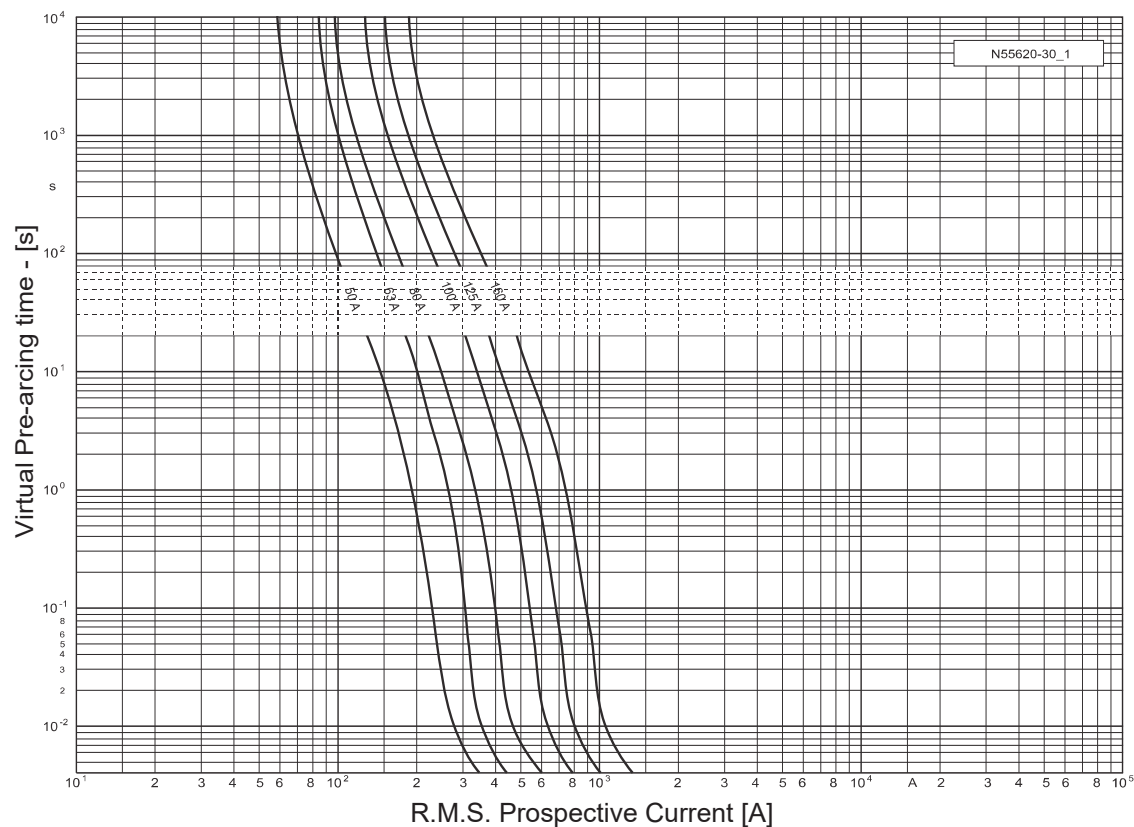


### Accessories

| Article Description | Article Number | Page | Article Description                   | Article Number | Page |
|---------------------|----------------|------|---------------------------------------|----------------|------|
|                     |                |      | Microswitch (red hammer)              | 2800202        | 540  |
|                     |                |      | (UL File E309038)                     | 2800204        |      |
|                     |                |      | Fuse base                             | 2155628        | 547  |
|                     |                |      | Grip handle, insertion / removal tool |                |      |
|                     |                |      |                                       |                |      |
|                     |                |      |                                       |                |      |

| URDC-PV | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test<br>Capacity | Class<br>gPV | Standard(s)<br>Following |
|---------|------------------------------------|---------------------------------|--------------|--------------------------|
| NH1     | 1000V <sub>DC</sub>                | 30kA @ L/R = 2ms                |              | IEC 60269-6<br>UL 2579   |

Time-Current Characteristics



Full size graphs available upon request.

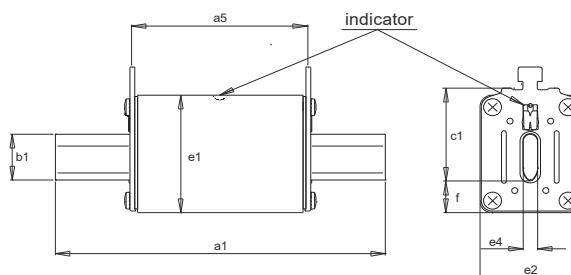
| URDC-PV                                                                               | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test<br>Capacity | Class<br>gPV | Standard(s)                            |
|---------------------------------------------------------------------------------------|------------------------------------|---------------------------------|--------------|----------------------------------------|
|  NH1 | 1000V <sub>DC</sub>                | 30kA @ L/R = 2ms                |              | UL 249-19<br>IEC 60269-6<br>VDE 0636-6 |
| UL File E341342                                                                       |                                    |                                 |              |                                        |

| Rated current<br>I <sub>n</sub><br>[A] | With indicator<br>Article Number |  | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t*<br>@1000V <sub>DC</sub><br>[A <sup>2</sup> s] | Power loss<br>@ I <sub>n</sub><br>[W] |
|----------------------------------------|----------------------------------|--|------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------|
| 63                                     | 2055629.63                       |  | 414                                                  | 1 500                                                                    | 14                                    |
| 80                                     | 2055629.80                       |  | 740                                                  | 2 600                                                                    | 17                                    |
| 100                                    | 2055629.100                      |  | 1 700                                                | 6 000                                                                    | 19                                    |
| 125                                    | 2055629.125                      |  | 3 700                                                | 13 000                                                                   | 21                                    |
| 160                                    | 2055629.160                      |  | 5 600                                                | 19 600                                                                   | 27                                    |
| 200                                    | 2055629.200                      |  | 9 900                                                | 30 300                                                                   | 32                                    |

\* L/R = 2ms

| Coefficients for Heavy Duty Applications |     |                   |     |     |
|------------------------------------------|-----|-------------------|-----|-----|
| a                                        | A2  | B1 <sub>max</sub> | B2  | Cf3 |
| 130                                      | 0.8 | 1.25              | 0.5 | 0.8 |

| Dimensions<br>[in /mm] |             |
|------------------------|-------------|
| a1                     | 5.31 / 135  |
| a5                     | 2.56 / 65   |
| b1                     | 0.79 / 20   |
| c1                     | 1.57 / 40   |
| e1                     | 2.03 / 51.5 |
| e2                     | 1.65 / 42   |
| e4                     | 0.24 / 6    |
| f                      | 0.55 / 14   |



### Accessories

| Article Description | Article Number | Page | Article Description                   | Article Number | Page |
|---------------------|----------------|------|---------------------------------------|----------------|------|
|                     |                |      | Microswitch (red hammer)              | 2800202        | 540  |
|                     |                |      | (UL File E309038)                     | 2800204        |      |
|                     |                |      | Fuse base                             | 2155628        | 547  |
|                     |                |      | Grip handle, insertion / removal tool |                |      |
|                     |                |      |                                       |                |      |
|                     |                |      |                                       |                |      |

URDC-PV



NH1

Rated Voltage

[U<sub>n</sub>]1000V<sub>DC</sub>

Rated Breaking Test

Capacity

30kA @ L/R = 2ms

Voltage

1000V<sub>DC</sub>

Class

gPV

Standard(s)

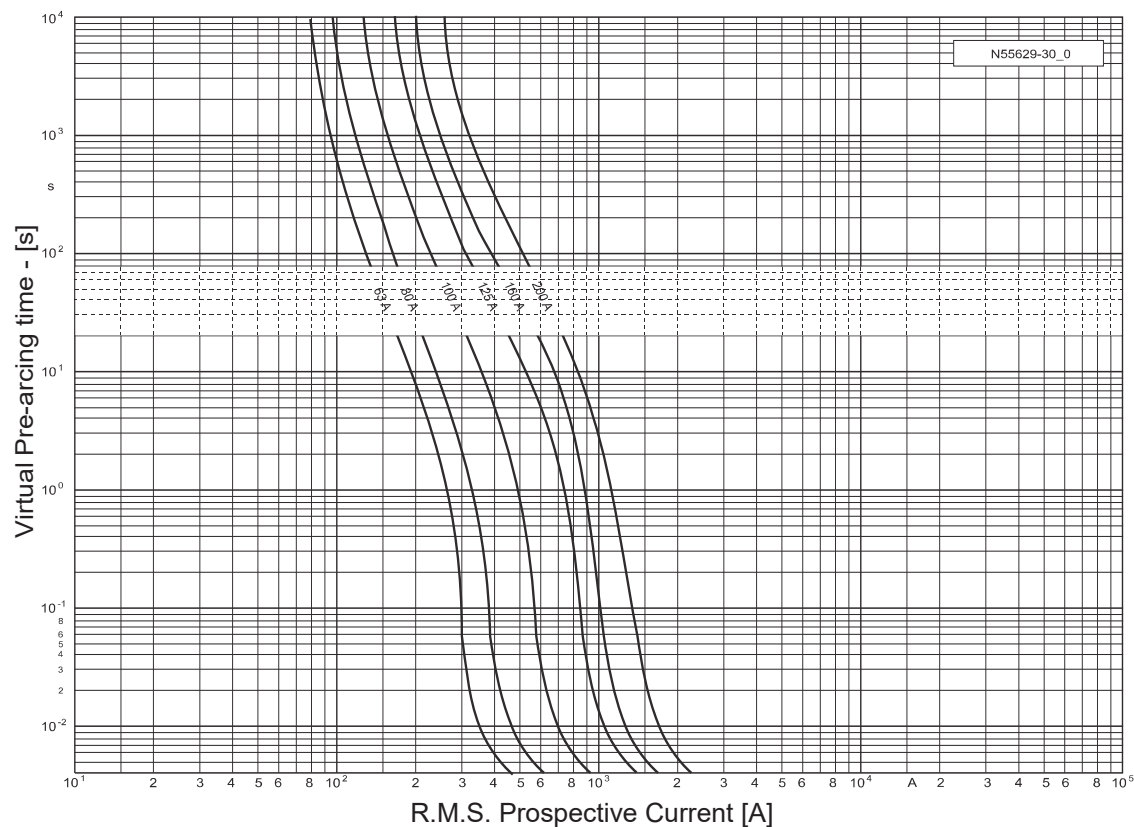
UL 248-19

IEC 60269-6

VDE 0636-6

UL File E341342

## Time-Current Characteristics



Full size graphs available upon request.

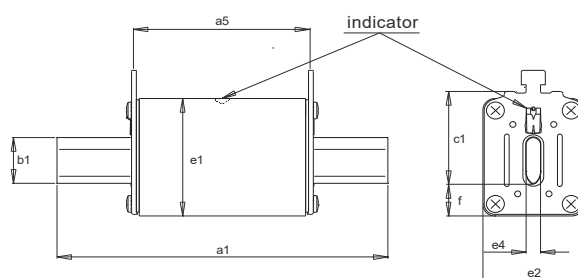
SIBA LLC

29 Fairfield Place  
West Caldwell, New Jersey 07006Phone 1-973-575-7422  
Fax 1-973-575-5858portal: [www.siballc.net](http://www.siballc.net)  
e-mail: [info@sibafuse.com](mailto:info@sibafuse.com)

| URDC-PV                                |                                      | Rated Voltage<br>[U <sub>n</sub> ]<br>1000V <sub>DC</sub> | Rated Breaking Test<br>Capacity<br>30kA @ L/R = 2ms | Class<br>gPV                                         | Standard(s)<br>UL 248-19<br>IEC 60269-6<br>VDE 0636-6                    |                                          |
|----------------------------------------|--------------------------------------|-----------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------|
| NH2                                    |                                      |                                                           |                                                     |                                                      |                                                                          |                                          |
| Rated current<br>I <sub>n</sub><br>[A] | With indicator<br><br>Article Number |                                                           |                                                     | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t*<br>@1000V <sub>DC</sub><br>[A <sup>2</sup> s] | Power<br>loss<br>@ I <sub>n</sub><br>[W] |
| 200                                    | 2055729.200                          |                                                           |                                                     | 10 400                                               | 39 000                                                                   | 31                                       |
| 250                                    | 2055729.250                          |                                                           |                                                     | 23 700                                               | 78 000                                                                   | 36                                       |
|                                        |                                      |                                                           |                                                     |                                                      | * L/R = 2ms                                                              |                                          |

| Coefficients for Heavy Duty Applications |     |                   |     |     |  |
|------------------------------------------|-----|-------------------|-----|-----|--|
| a                                        | A2  | B1 <sub>max</sub> | B2  | Cf3 |  |
| 130                                      | 0.8 | 1.25              | 0.5 | 0.8 |  |

| Dimensions<br>[in / mm] |            |
|-------------------------|------------|
| a1                      | 5.91 / 150 |
| a5                      | 2.56 / 65  |
| b1                      | 1.02 / 26  |
| c1                      | 2.32 / 48  |
| e1                      | 2.32 / 59  |
| e2                      | 2.09 / 53  |
| e4                      | 0.24 / 6   |
| f                       | 0.55 / 14  |

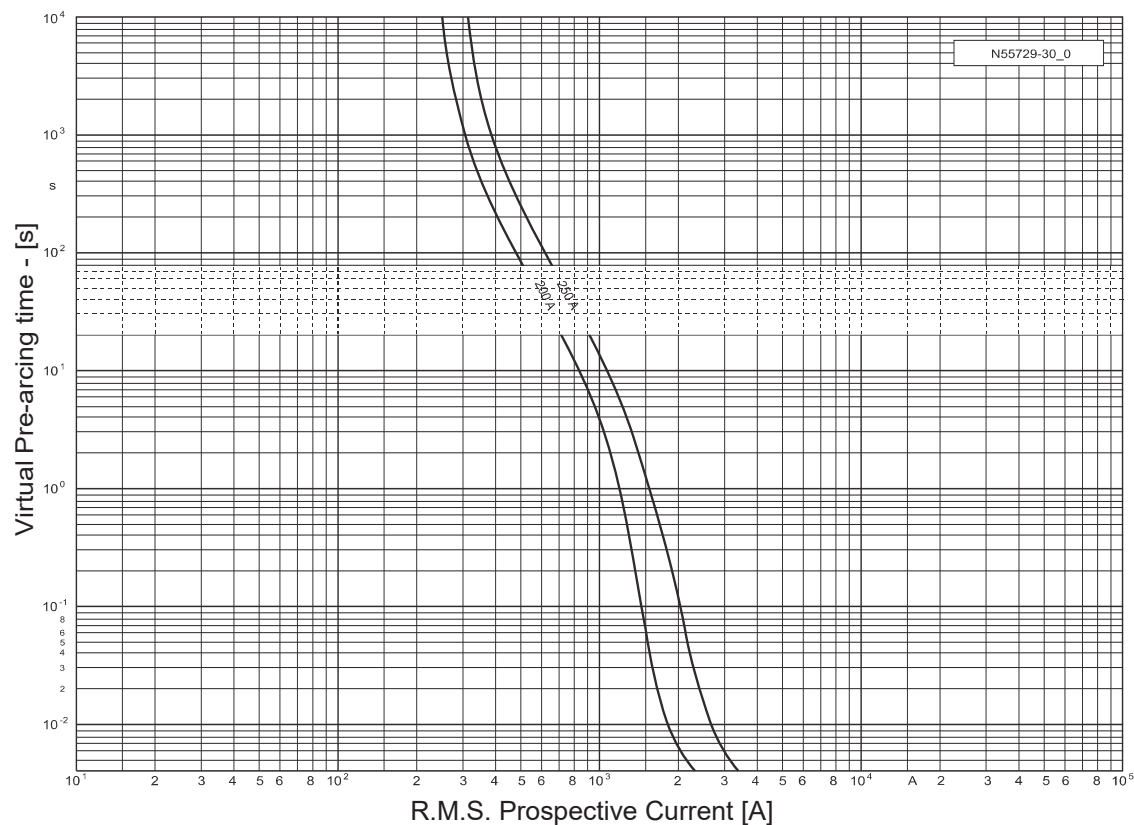


### Accessories

| Article Description | Article Number | Page | Article Description                   | Article Number | Page |
|---------------------|----------------|------|---------------------------------------|----------------|------|
|                     |                |      | Microswitch (red hammer)              | 2800202        | 540  |
|                     |                |      | (UL File E309038)                     | 2800204        |      |
|                     |                |      | Fuse base                             | 2155728        | 548  |
|                     |                |      | Grip handle, insertion / removal tool |                |      |
|                     |                |      |                                       |                |      |
|                     |                |      |                                       |                |      |

| URDC-PV | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test<br>Capacity | Class<br>gPV | Standard(s)                            |
|---------|------------------------------------|---------------------------------|--------------|----------------------------------------|
| NH2     | 1000V <sub>DC</sub>                | 30kA @ L/R = 2ms                |              | UL 248-19<br>IEC 60269-6<br>VDE 0636-6 |

Time-Current Characteristics



Full size graphs available upon request.

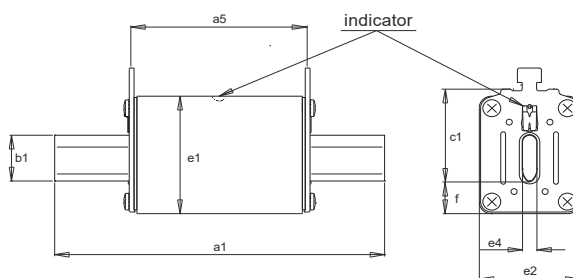
| URDC-PV | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test<br>Capacity | Class<br>gPV | Standard(s)                            |
|---------|------------------------------------|---------------------------------|--------------|----------------------------------------|
| NH3     | 1000V <sub>DC</sub>                | 30kA @ L/R = 2ms                |              | UL 248-19<br>IEC 60269-6<br>VDE 0636-6 |

| Rated current<br>I <sub>n</sub><br>[A] | With indicator<br>Article Number | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t*<br>@ 1000V <sub>DC</sub><br>[A <sup>2</sup> s] | Power loss<br>@ I <sub>n</sub><br>[W] |
|----------------------------------------|----------------------------------|------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------|
| 315                                    | 2056829.315                      | 33 000                                               | 107 000                                                                   | 41                                    |
| 350                                    | 2056829.350                      | 40 000                                               | 130 000                                                                   | 48                                    |
| 400                                    | 2056829.400                      | 64 000                                               | 208 000                                                                   | 50                                    |

\* L/R = 2ms

| Coefficients for Heavy Duty Applications |     |                   |     |     |
|------------------------------------------|-----|-------------------|-----|-----|
| a                                        | A2  | B1 <sub>max</sub> | B2  | Cf3 |
| 130                                      | 0.8 | 1.25              | 0.5 | 0.8 |

| Dimensions<br>[in / mm] |            |
|-------------------------|------------|
| a1                      | 5.91 / 150 |
| a5                      | 2.56 / 65  |
| b1                      | 1.26 / 32  |
| c1                      | 2.36 / 60  |
| e1                      | 2.87 / 73  |
| e2                      | 2.87 / 73  |
| e4                      | 0.24 / 6   |
| f                       | 0.63 / 16  |

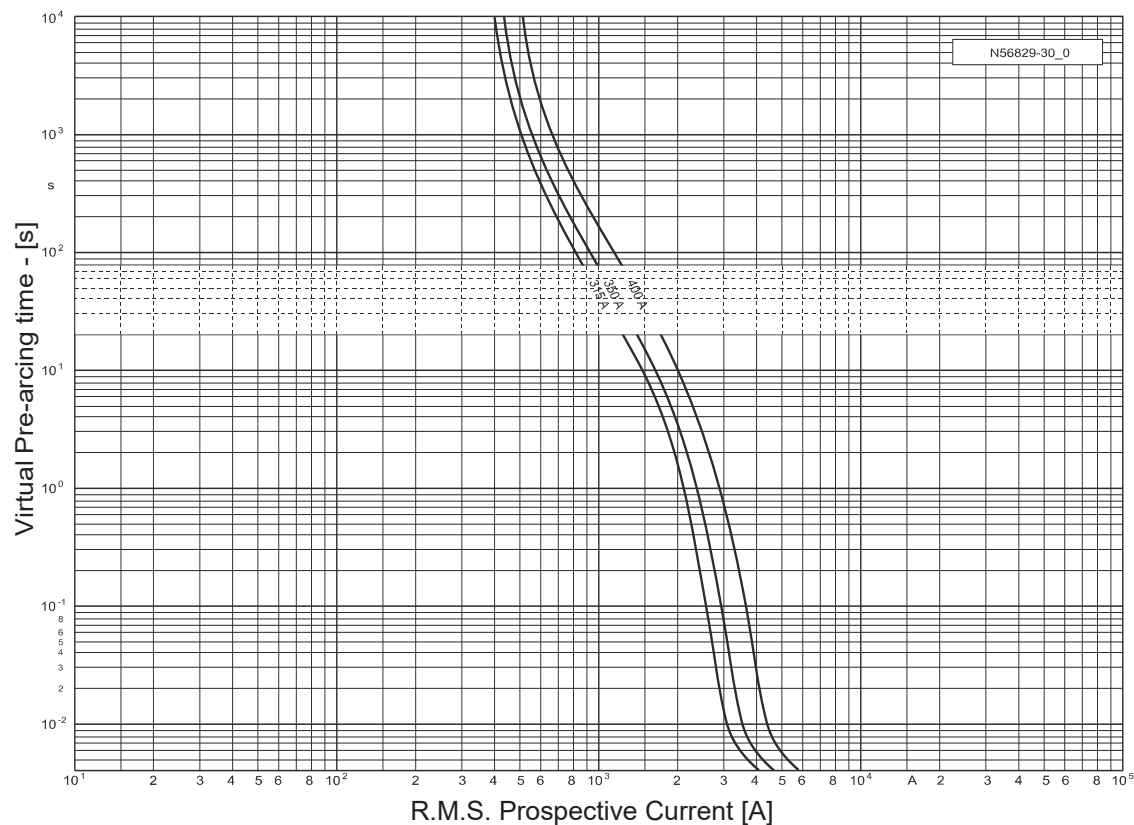


### Accessories

| Article Description | Article Number | Page | Article Description                   | Article Number | Page |
|---------------------|----------------|------|---------------------------------------|----------------|------|
|                     |                |      | Microswitch (red hammer)              | 2800202        | 540  |
|                     |                |      | (UL File E309038)                     | 2800204        |      |
|                     |                |      | Fuse base                             | 2156828        | 548  |
|                     |                |      | Grip handle, insertion / removal tool |                |      |
|                     |                |      |                                       |                |      |
|                     |                |      |                                       |                |      |

| URDC-PV | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test<br>Capacity | Class<br>gPV | Standard(s)                            |
|---------|------------------------------------|---------------------------------|--------------|----------------------------------------|
| NH3     | 1000V <sub>DC</sub>                | 30kA @ L/R = 2ms                |              | UL 248-19<br>IEC 60269-6<br>VDE 0636-6 |

Time-Current Characteristics



Full size graphs available upon request.



| URDC-PV                                                                           | Rated Voltage       | Rated Breaking Test | Class | Standard(s) |
|-----------------------------------------------------------------------------------|---------------------|---------------------|-------|-------------|
|  | [U <sub>n</sub> ]   | Capacity            | gFP   | UL 248-19   |
| 14/51mm                                                                           | 1000V <sub>DC</sub> | 10kA @ L/R = 2ms    |       |             |
| Ground Fault Protection                                                           |                     |                     |       |             |
| UL File E180276                                                                   |                     |                     |       |             |

| Rated current<br>I <sub>n</sub><br>[A] | With<br>2.5N<br>striker* |   | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t<br>@ 1100V <sub>DC</sub><br>[A <sup>2</sup> s] | Power<br>loss<br>[W] |
|----------------------------------------|--------------------------|---|------------------------------------------------------|--------------------------------------------------------------------------|----------------------|
| 1                                      | 5021406.1                | ✓ | 0.35                                                 | 2                                                                        | 0.8                  |
| 3                                      | 5021406.3                | ✓ | 10                                                   | 31                                                                       | 2.0                  |
| 5                                      | 5021406.5                | ✓ | 20                                                   | 100                                                                      | 2.7                  |

\* Striker minimum operating voltage 10V

| Coefficients for Heavy Duty Applications |     |                   |     |     |
|------------------------------------------|-----|-------------------|-----|-----|
| a                                        | A2  | B1 <sub>max</sub> | B2  | Cf3 |
| 130                                      | 0.9 | 1.25              | 0.5 | 0.8 |



### Accessories

| Article Description                 | Article Number | Page | Article Description | Article Number | Page |
|-------------------------------------|----------------|------|---------------------|----------------|------|
| Fuse module 1-Pole, w / microswitch | 5105805.1SDC   | 558  |                     |                |      |
|                                     |                |      |                     |                |      |
|                                     |                |      |                     |                |      |
|                                     |                |      |                     |                |      |
|                                     |                |      |                     |                |      |

URDC-PV

Rated Voltage

Rated Breaking Test

Class

Standard(s)



14/51mm

[U<sub>n</sub>]1000V<sub>DC</sub>

Capacity

10kA @ L/R = 2ms

Voltage

1000V<sub>DC</sub>

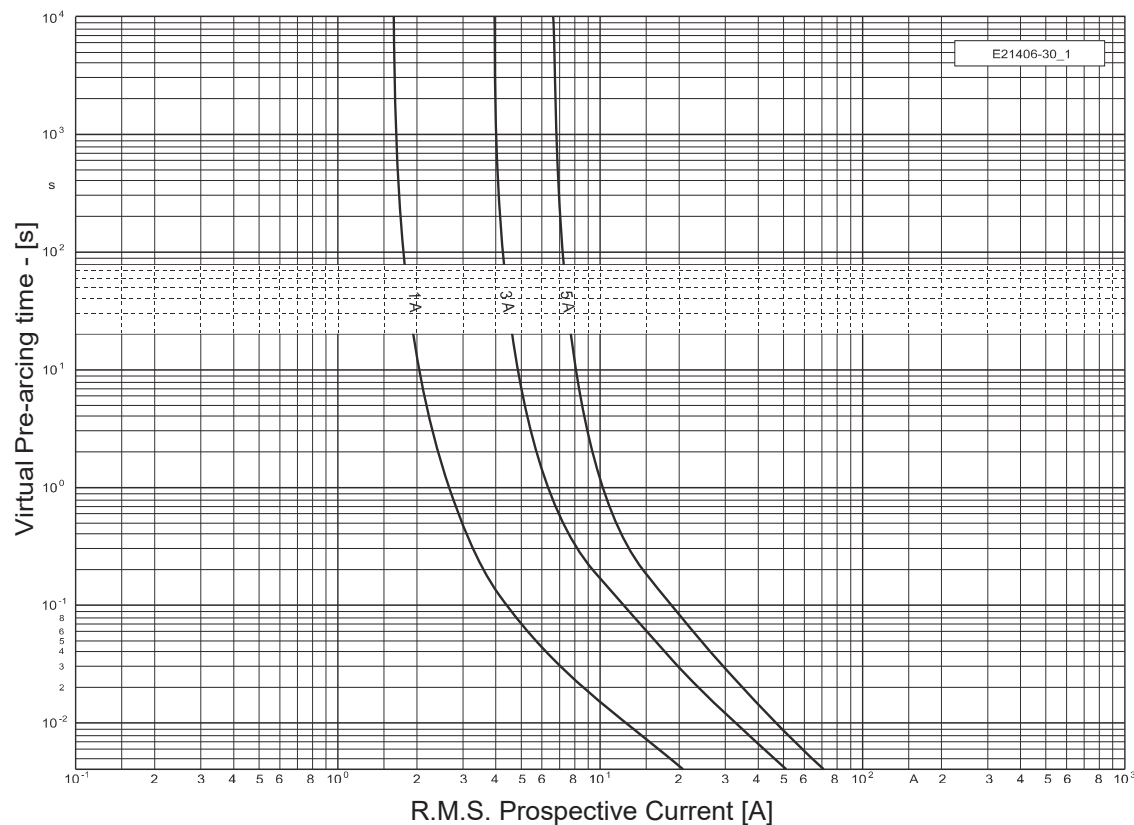
gFP

UL 248-19

UL File E180276

Ground Fault Protection

## Time-Current Characteristics



Full size graphs available upon request.

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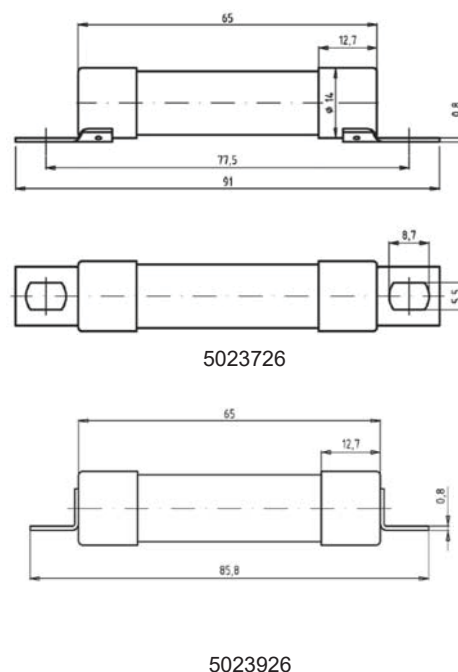
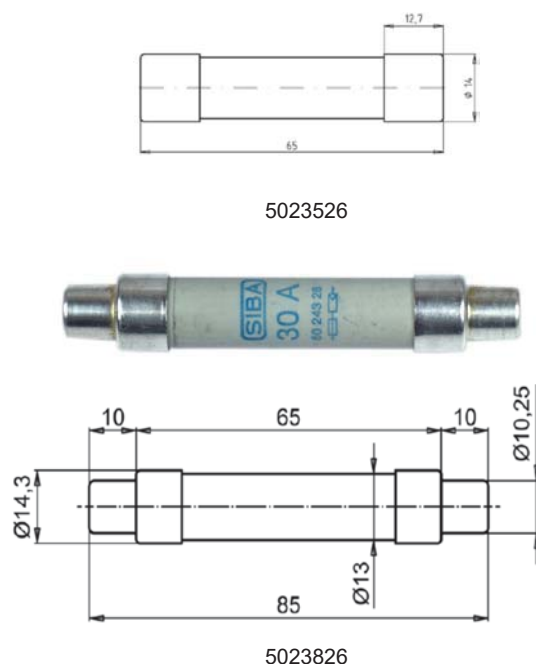
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| URDC-PV    | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test<br>Capacity | Class<br>gPV | Standard(s)<br>IEC 60269-6 |
|------------|------------------------------------|---------------------------------|--------------|----------------------------|
| 14x65mm    | 1100V <sub>DC</sub>                | 30kA @ L/R = 1ms                | 8A - 25A     | Proposal issued            |
| 10/14x85mm | 1000V <sub>DC</sub>                | 10kA @ L/R = 1ms                | 30A          | 2009                       |

| Rated current<br>I <sub>n</sub><br>[A] | Without indicator<br>Article Number | Without indicator<br>77.5mm<br>mounting<br>Article Number | Without indicator<br>10/14mm<br>clip Mount<br>Article Number | Without indicator<br>w/ offset tabs<br>Article Number |  | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t<br>@rated voltage<br>[A <sup>2</sup> s] | Power<br>loss<br>@ I <sub>n</sub><br>[W] |
|----------------------------------------|-------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------|--|------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------|
| 8                                      | 5023526.8                           | 5023726.8                                                 | 5023826.8                                                    | 5023926.8                                             |  | 5                                                    | 22                                                                | 2.6                                      |
| 10                                     | 5023526.10                          | 5023726.10                                                | 5023826.10                                                   | 5023926.10                                            |  | 5                                                    | 24                                                                | 3.3                                      |
| 12                                     | 5023526.12                          | 5023726.12                                                | 5023826.12                                                   | 5023926.12                                            |  | 13                                                   | 62                                                                | 3.5                                      |
| 16                                     | 5023526.16                          | 5023726.16                                                | 5023826.16                                                   | 5023926.16                                            |  | 30                                                   | 143                                                               | 3.8                                      |
| 20                                     | 5023526.20                          | 5023726.20                                                | 5023826.20                                                   | 5023926.20                                            |  | 53                                                   | 250                                                               | 4.7                                      |
| 25                                     | 5023526.25                          | 5023726.25                                                | 5023826.25                                                   | 5023926.25                                            |  | 82                                                   | 560                                                               | 5.9                                      |
| 30                                     | 5023526.30                          | 5023726.30                                                | 5023826.30                                                   | 5023926.30                                            |  | 118                                                  | 950                                                               | 7.5                                      |
| Weight [kg / 1]                        |                                     |                                                           |                                                              |                                                       |  |                                                      |                                                                   |                                          |
|                                        | 0.03                                | 0.03                                                      | 0.03                                                         | 0.03                                                  |  |                                                      |                                                                   |                                          |

## Coefficients for Heavy Duty Applications

| a   | A2  | B1 <sub>max</sub> | B2  | Cf3 |
|-----|-----|-------------------|-----|-----|
| 130 | 0.9 | 1.25              | 0.5 | 0.8 |



## Accessories

| Article Description           | Article Number | Page | Article Description          | Article Number | Page |
|-------------------------------|----------------|------|------------------------------|----------------|------|
| Fuse module 1-Pole ( 5023828) | 5123805        | 562  |                              |                |      |
| 5023828                       |                |      | 5023528                      |                |      |
| Fuse clips PCB mounting       | 5806316        | 563  | Fuse clips screw mounting    | 6100101.2      | 563  |
| Fuse clips PCB mounting       | 5806319        |      | Clamping plate for 6100101.2 | 6301701        |      |
| Fuse clips screw mounting     | 5806317        |      | Fuse clips PCB mounting      | 5805806        |      |

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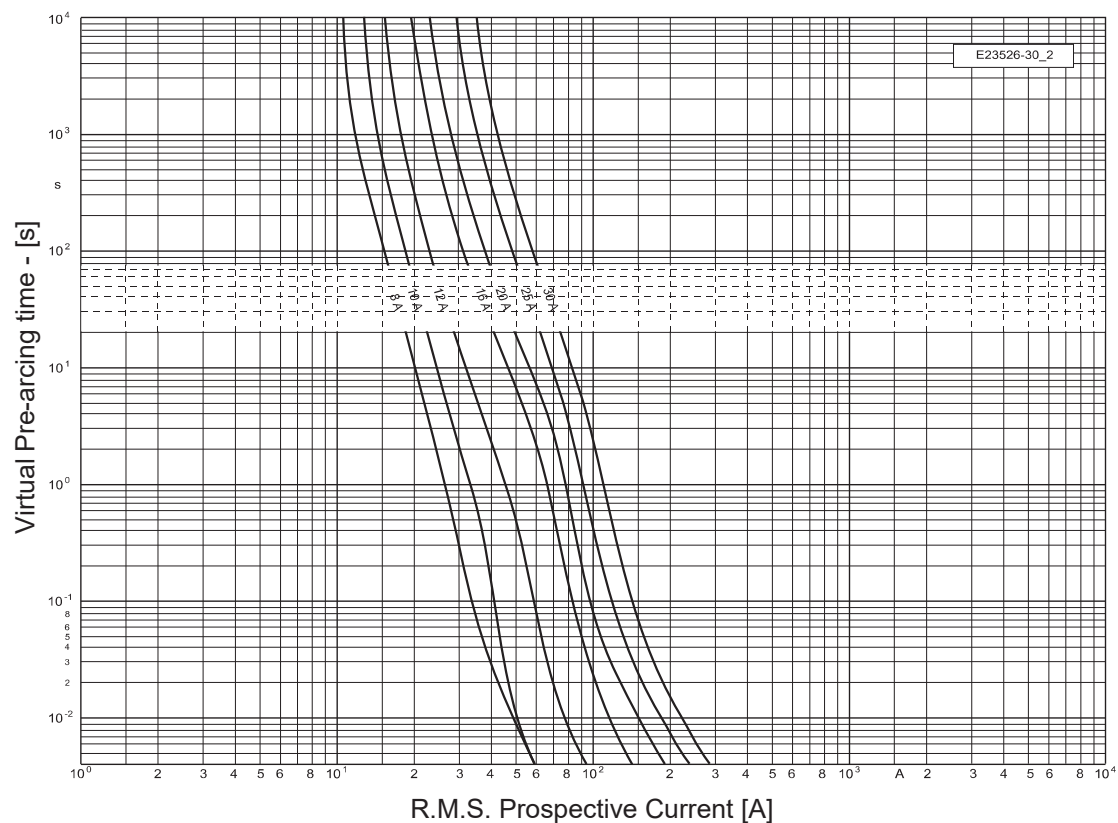
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| URDC-PV    | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test Class<br>Capacity | Voltage             | gPV      | Standard(s)             |
|------------|------------------------------------|---------------------------------------|---------------------|----------|-------------------------|
| 14x65mm    | 1100V <sub>DC</sub>                | 30kA @ L/R = 1ms                      | 1100V <sub>DC</sub> | 8A - 25A | IEC 60269-6             |
| 10/14x85mm | 1000V <sub>DC</sub>                | 10kA @ L/R = 1ms                      | 1000V <sub>DC</sub> | 30A      | Proposal issued<br>2009 |

Time-Current Characteristics



Full size graphs available upon request.

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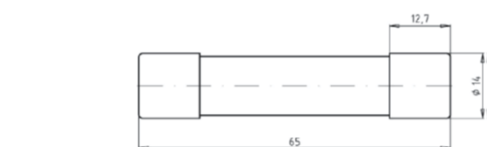
| URDC-PV                                                                                                    | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test<br>Capacity | Class<br>gPV | Standard(s)              |
|------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------|--------------|--------------------------|
|  14x65/85mm<br>10/14x85mm | 1100V <sub>DC</sub>                | 30kA @ L/R = 1-3 ms             |              | UL 248-19<br>IEC 60269-6 |

## UL File E341342

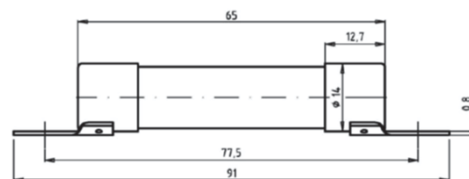
| Rated current<br>I <sub>n</sub><br>[A] | Without indicator<br>Article Number | Without indicator<br>77.5mm<br>mounting<br>Article Number | Without indicator<br>10/14mm<br>clip mount<br>Article Number | Without indicator<br>w/ offset tabs<br>Article Number |  | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t<br>@ 1100V <sub>DC</sub><br>[A <sup>2</sup> s] | Power<br>loss<br>@ I <sub>n</sub><br>[W] |
|----------------------------------------|-------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------|--|------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------|
| 10                                     | 5023528.10                          | 5023728.10                                                | 5023828.10                                                   | 5023928.10                                            |  | 3                                                    | 21                                                                       | 4.0                                      |
| 12                                     | 5023528.12                          | 5023728.12                                                | 5023828.12                                                   | 5023928.12                                            |  | 7.5                                                  | 51                                                                       | 4.1                                      |
| 16                                     | 5023528.16                          | 5023728.16                                                | 5023828.16                                                   | 5023928.16                                            |  | 16                                                   | 109                                                                      | 4.6                                      |
| 20                                     | 5023528.20                          | 5023728.20                                                | 5023828.20                                                   | 5023928.20                                            |  | 30                                                   | 205                                                                      | 5.5                                      |
| 25                                     | 5023528.25                          | 5023728.25                                                | 5023828.25                                                   | 5023928.25                                            |  | 82                                                   | 560                                                                      | 5.9                                      |
| Weight [kg / 1]                        |                                     |                                                           |                                                              |                                                       |  |                                                      |                                                                          |                                          |
|                                        | 0.03                                | 0.03                                                      | 0.03                                                         | 0.03                                                  |  |                                                      |                                                                          |                                          |

## Coefficients for Heavy Duty Applications

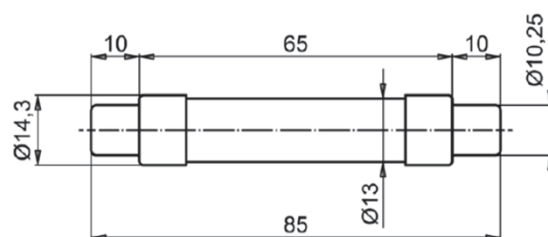
| a   | A2  | B1 <sub>max</sub> | B2  | Cf3 |
|-----|-----|-------------------|-----|-----|
| 130 | 0.8 | 1.25              | 0.5 | 0.8 |



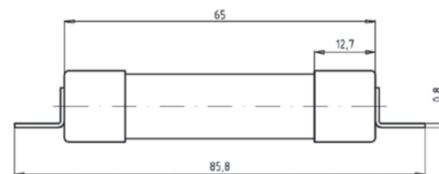
5023528



5023728



5023828



5023928



## Accessories

| Article Description           | Article Number | Page | Article Description          | Article Number | Page |
|-------------------------------|----------------|------|------------------------------|----------------|------|
| Fuse module 1-Pole ( 5023828) | 5123805        | 562  |                              |                |      |
|                               | 5023828        |      |                              | 5023528        |      |
| Fuse clips PCB mounting       | 5806316        | 563  | Fuse clips screw mounting    | 6100101.2      | 563  |
| Fuse clips PCB mounting       | 5806319        |      | Clamping plate for 6100101.2 | 6301701        |      |
| Fuse clips screw mounting     | 5806317        |      | Fuse clips PCB mounting      | 5805806        |      |

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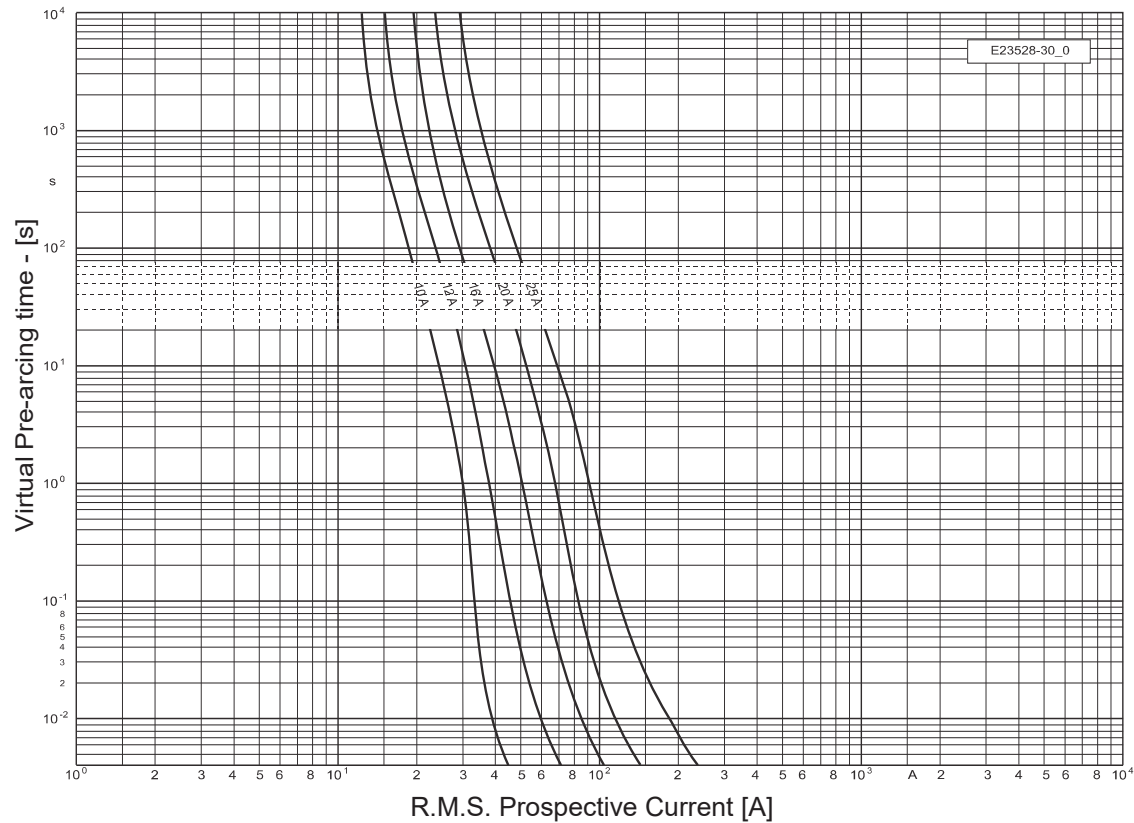
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| URDC-PV                                                                                                   | Rated Voltage       | Rated Breaking Test |                     | Class | Standard(s) |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-------|-------------|
|                                                                                                           | [U <sub>n</sub> ]   | Capacity            | Voltage             | gPV   | UL 248-19   |
|  14x65/85mm<br>10/14x85mm | 1100V <sub>DC</sub> | 30kA @ L/R = 1-3 ms | 1100V <sub>DC</sub> |       | IEC 60269-6 |
| UL File E341342                                                                                           |                     |                     |                     |       |             |

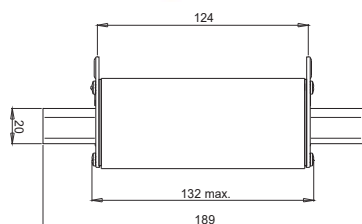
## Time-Current Characteristics



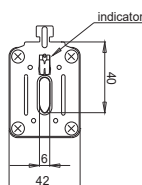
Full size graphs available upon request.

| URDC-PV         | Rated Voltage                            | Rated Breaking Test              | Class | Standard(s)              |
|-----------------|------------------------------------------|----------------------------------|-------|--------------------------|
| NH1XL & SQB1-M8 | [U <sub>n</sub> ]<br>1100V <sub>DC</sub> | Capacity<br>30kA @ L/R = 1 - 3ms | gPV   | UL 248-19<br>IEC 60269-6 |

| Rated current<br>I <sub>n</sub><br>[A] | Without indicator<br>Article Number | With indicator and fitting for microswitch<br>Article Number | Without indicator<br>Article Number | With indicator and fitting for microswitch<br>Article Number |  | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t<br>@ 1100V <sub>DC</sub><br>[A <sup>2</sup> s] | Power loss<br>@ I <sub>n</sub><br>[W] |
|----------------------------------------|-------------------------------------|--------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------|--|------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------|
|                                        | NH1XL                               |                                                              | SQB1-M8                             |                                                              |  |                                                      |                                                                          |                                       |
| 50                                     | 2002828.50                          | 2002829.50                                                   | 2001928.50                          | 2001927.50                                                   |  | 270                                                  | 900                                                                      | 17                                    |
| 63                                     | 2002828.63                          | 2002829.63                                                   | 2001928.63                          | 2001927.63                                                   |  | 600                                                  | 2 000                                                                    | 20                                    |
| 80                                     | 2002828.80                          | 2002829.80                                                   | 2001928.80                          | 2001927.80                                                   |  | 1 100                                                | 4 000                                                                    | 23                                    |
| 100                                    | 2002828.100                         | 2002829.100                                                  | 2001928.100                         | 2001927.100                                                  |  | 1 900                                                | 6 500                                                                    | 27                                    |
| 125                                    | 2002828.125                         | 2002829.125                                                  | 2001928.125                         | 2001927.125                                                  |  | 3 600                                                | 12 000                                                                   | 32                                    |
| 150                                    | 2002828.150                         | 2002829.150                                                  | 2001928.150                         | 2001927.150                                                  |  | 6 700                                                | 22 000                                                                   | 34                                    |
| 160                                    | 2002828.160                         | 2002829.160                                                  | 2001928.160                         | 2001927.160                                                  |  | 7 600                                                | 25 000                                                                   | 36                                    |
| 175                                    | 2002828.175                         | 2002829.175                                                  | 2001928.175                         | 2001927.175                                                  |  | 9 600                                                | 31 500                                                                   | 37                                    |
| 200                                    | 2002828.200                         | 2002829.200                                                  | 2001928.200                         | 2001927.200                                                  |  | 14 300                                               | 47 000                                                                   | 43                                    |
| Weight [kg / 1]                        |                                     |                                                              |                                     |                                                              |  |                                                      |                                                                          |                                       |
| 0.78                                   |                                     |                                                              | 0.78                                |                                                              |  |                                                      |                                                                          |                                       |

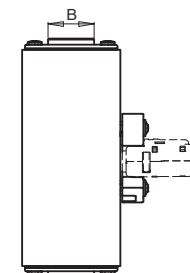
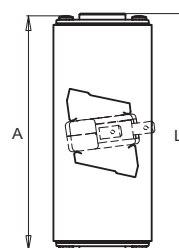
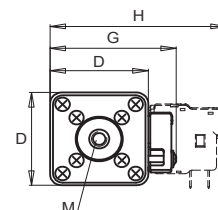


2002828 / 2002829



| Coefficients for Heavy Duty Applications |     |                   |     |     |
|------------------------------------------|-----|-------------------|-----|-----|
| a                                        | A2  | B1 <sub>max</sub> | B2  | Cf3 |
| 130                                      | 0.8 | 1.25              | 0.5 | 0.8 |

| Dimensions<br>[in / mm]              |   |              |
|--------------------------------------|---|--------------|
| 2001928                              |   | 2001927      |
| 5.08 / 129                           | A | 5.08 / 129   |
| 0.94 / 24                            | B | 0.94 / 24    |
| 2.01 / 51                            | D | 2.01 / 51    |
| —                                    | G | 2.60 / 66    |
| —                                    | H | 3.58 / 91    |
| 5.18 / 131.5                         | L | 5.18 / 131.5 |
| M8                                   | M | M8           |
| Thread Depth<br>0.43 / 11            |   |              |
| Maximum Torque<br>22N•m<br>16.2lb•ft |   |              |



2001927 / 2001928

### Accessories

| Article Description                   | Article Number | Page | Article Description             | Article Number | Page |
|---------------------------------------|----------------|------|---------------------------------|----------------|------|
| Fuse base 1-Pole (2002828/29)         | 2102828        | 547  | 2001928                         |                |      |
| Terminal covers                       | 2100301.26     |      |                                 |                |      |
| Microswitch (red hammer) for 20028229 |                |      | Microswitch - NO-NC, UL E309038 |                |      |
| Standard level                        | 2800202        | 540  | Standard level                  | 2800114        | 541  |
| Grip handle, insertion / removal tool | 2203101        | 566  |                                 |                |      |
| Grip handle, insertion / removal tool | 2203102        |      |                                 |                |      |

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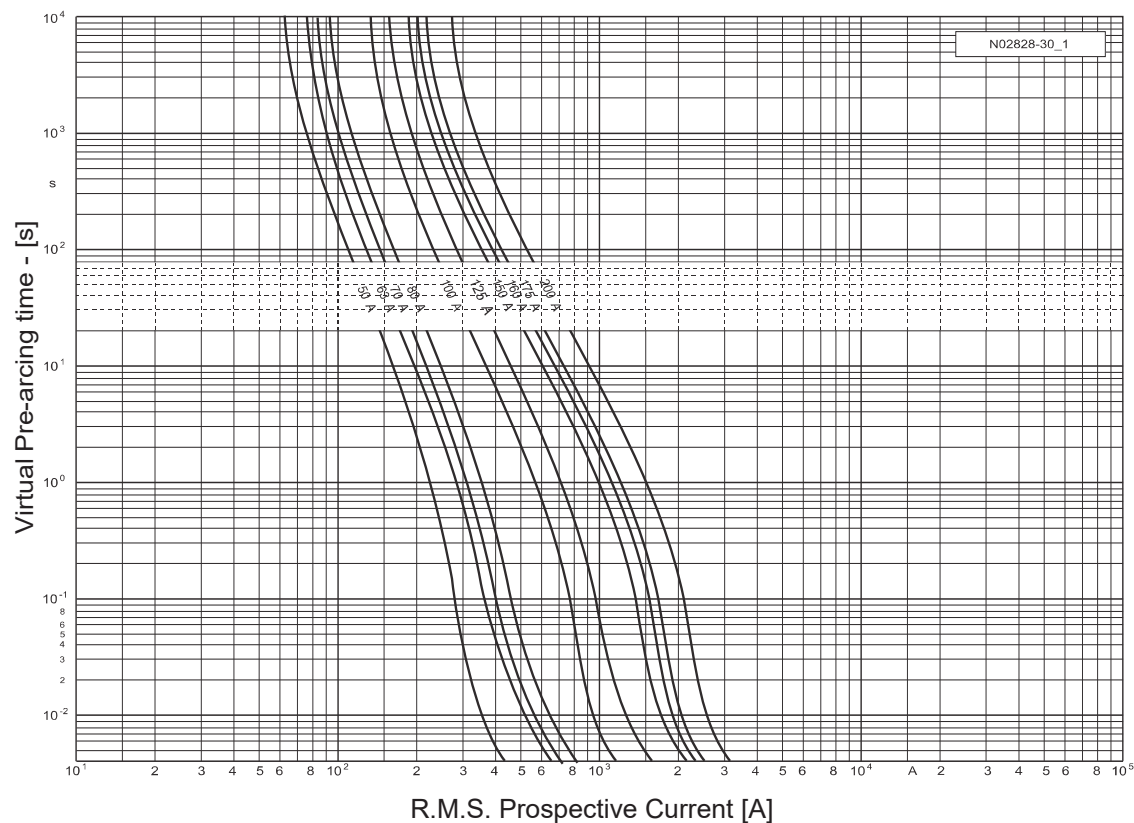
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| URDC-PV            | Rated Voltage                            | Rated Breaking Test Class        |                                | Standard(s)              |
|--------------------|------------------------------------------|----------------------------------|--------------------------------|--------------------------|
| NH1XL &<br>SQB1-M8 | [U <sub>n</sub> ]<br>1100V <sub>DC</sub> | Capacity<br>30kA @ L/R = 1 - 3ms | Voltage<br>1100V <sub>DC</sub> | UL 248-19<br>IEC 60269-6 |

Time-Current Characteristics



Full size graphs available upon request.

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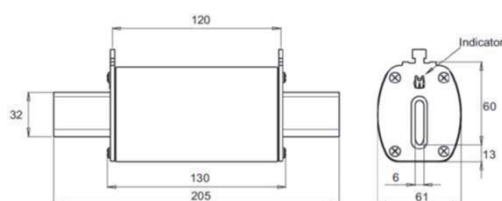
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e-mail: [info@sibafuse.com](mailto:info@sibafuse.com)



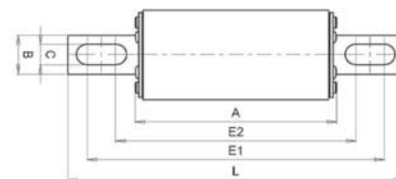
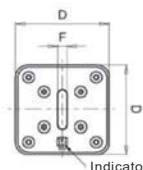
| URDC-PV                                                                                             | Rated Voltage                            | Rated Breaking Test                                                | Class | Standard(s)              |
|-----------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------|-------|--------------------------|
|  NH3L<br>SQB2 - US | [U <sub>n</sub> ]<br>1100V <sub>DC</sub> | Capacity<br>30kA @ L/R = 1 - 3ms<br>Voltage<br>1100V <sub>DC</sub> | gPV   | UL 248-19<br>IEC 60269-6 |
| UL File E341342                                                                                     |                                          |                                                                    |       |                          |

| Rated current<br>I <sub>n</sub><br>[A] | Without indicator<br>Article Number | With top indicator and fitting for microswitch<br>Article Number | Without indicator<br>Article Number | With top indicator<br>Article Number |  | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t<br>@1100V <sub>DC</sub><br>[A <sup>2</sup> s] | Power loss<br>[W] |      |
|----------------------------------------|-------------------------------------|------------------------------------------------------------------|-------------------------------------|--------------------------------------|--|------------------------------------------------------|-------------------------------------------------------------------------|-------------------|------|
|                                        | NH3L                                |                                                                  | SQB2                                |                                      |  |                                                      |                                                                         | NH3L              | SQB2 |
| 200                                    | 2003128.200                         | 2003129.200                                                      | 2003428.200                         | 2003429.200                          |  | 13 000                                               | 63 000                                                                  | 42                | 39   |
| 250                                    | 2003128.250                         | 2003129.250                                                      | 2003428.250                         | 2003429.250                          |  | 26 500                                               | 130 000                                                                 | 48                | 42   |
| 300                                    | 2003128.300                         | 2003129.300                                                      | 2003428.300                         | 2003429.300                          |  | 38 000                                               | 185 000                                                                 | 62                | 56   |
| 315                                    | 2003128.315                         | 2003129.315                                                      | 2003428.315                         | 2003429.315                          |  | 38 000                                               | 185 000                                                                 | 65                | 59   |
| 350                                    | 2003128.350                         | 2003129.350                                                      | 2003428.350                         | 2003429.350                          |  | 57 000                                               | 280 000                                                                 | 64                | 62   |
| 400                                    | 2003128.400                         | 2003129.400                                                      | 2003428.400                         | 2003429.400                          |  | 80 000                                               | 390 000                                                                 | 71                | 64   |
| 450                                    |                                     |                                                                  | 2003428.450                         | 2003429.450                          |  | 92 500                                               | 450 000                                                                 | –                 | 87   |
| Weight [kg / 1]                        |                                     |                                                                  |                                     |                                      |  |                                                      |                                                                         |                   |      |
| 1.44                                   |                                     |                                                                  | 1.38                                |                                      |  |                                                      |                                                                         |                   |      |

| Coefficients for Heavy Duty Applications |     |                   |     |     |  |
|------------------------------------------|-----|-------------------|-----|-----|--|
| a                                        | A2  | B1 <sub>max</sub> | B2  | Cf3 |  |
| 130                                      | 0.8 | 1.25              | 0.5 | 0.8 |  |



|    | Dimensions<br>[in / mm] |
|----|-------------------------|
| A  | 5.08 / 129              |
| B  | 1.02 / 26               |
| C  | 0.55 / 14               |
| D  | 2.36 / 60               |
| E1 | 7.48 / 190              |
| E2 | 6.06 / 154              |
| F  | 0.24 / 6                |
| L  | 8.46 / 215              |



2003128 / 2003129

2003428 / 2003429



### Accessories

| Article Description                           | Article Number | Page | Article Description             | Article Number | Page |
|-----------------------------------------------|----------------|------|---------------------------------|----------------|------|
| Fuse base 1-Pole ( 2003128/29)                | 2103128        | 547  |                                 |                |      |
| Terminal cover                                | 2100501.26     |      |                                 |                |      |
| Microswitch (red hammer) for 2003128          |                |      | Microswitch - NO-NC, UL E309038 |                |      |
| Standard level                                | 2800202        | 540  | Standard level                  | 2800114        | 541  |
| Grip handle, insertion / removal tool 2203101 |                | 566  |                                 |                |      |
| Grip handle, insertion / removal tool         | 2203102        |      |                                 |                |      |

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URDC-PV

Rated Voltage

Rated Breaking Test

Class

Standard(s)



NH3L

[U<sub>n</sub>]

Capacity

Voltage

gPV

UL 248-19

SQB2 - US

1100V<sub>DC</sub>

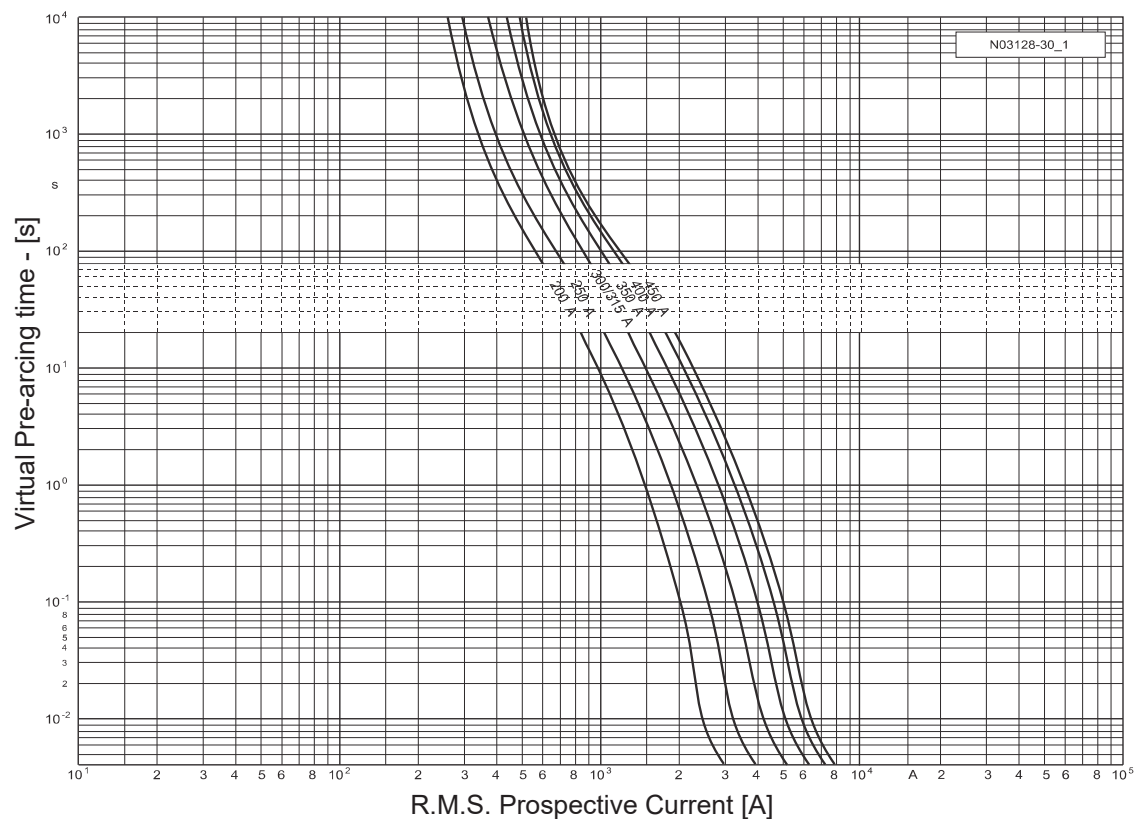
30kA @ L/R = 1 - 3ms

1100V<sub>DC</sub>

IEC 60269-6

UL File E341342

## Time-Current Characteristics



Full size graphs available upon request.

SIBA LLC

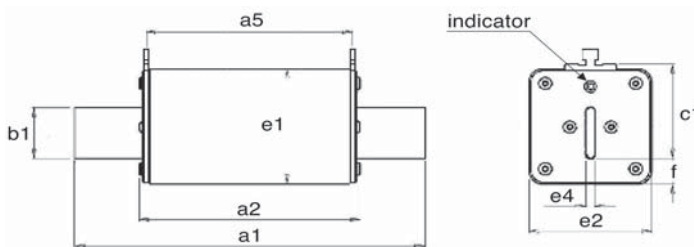
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e-mail: [info@sibafuse.com](mailto:info@sibafuse.com)

| URDC-PV                                                                                                           | Rated Voltage                            | Rated Breaking Test                                                | Class | Standard(s)                            |
|-------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------|-------|----------------------------------------|
|  NH3L<br>SQB3 - US<br>SQB3 - DIN | [U <sub>n</sub> ]<br>1100V <sub>DC</sub> | Capacity<br>50kA @ L/R = 1 - 3ms<br>Voltage<br>1100V <sub>DC</sub> | gPV   | UL 248-19<br>IEC 60269-6<br>VDE 0636-6 |
| UL File E341342                                                                                                   |                                          |                                                                    |       |                                        |

| Rated current<br>I <sub>n</sub><br>[A] | Without indicator<br>Article Number | With top indicator and fitting for microswitch<br>Article Number | Without indicator<br>Article Number | Without indicator<br>Article Number | With top indicator<br>Article Number | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t<br>@1100V <sub>DC</sub><br>[A <sup>2</sup> s] | Power loss<br>@ I <sub>n</sub><br>[W] |
|----------------------------------------|-------------------------------------|------------------------------------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------|
|                                        | UL Listed                           |                                                                  | No UL                               |                                     |                                      |                                                      |                                                                         |                                       |
|                                        | NH3L                                |                                                                  | SQB3 - US                           | SQB3 - DIN 167mm                    |                                      |                                                      |                                                                         |                                       |
| 200                                    | 2023128.200                         | 2023129.200                                                      | 2023428.200                         | 2023528.200                         | 2023529.200                          | 19 000                                               | 81 000                                                                  | 36                                    |
| 250                                    | 2023128.250                         | 2023129.250                                                      | 2023428.250                         | 2023528.250                         | 2023529.250                          | 32 500                                               | 145 000                                                                 | 43                                    |
| 315                                    | 2023128.315                         | 2023129.315                                                      | 2023428.315                         | 2023528.315                         | 2023529.315                          | 57 000                                               | 257 000                                                                 | 55                                    |
| 350                                    | 2023128.350                         | 2023129.350                                                      | 2023428.350                         | 2023528.350                         | 2023529.350                          | 78 000                                               | 360 000                                                                 | 60                                    |
| 400                                    | 2023128.400                         | 2023129.400                                                      | 2023428.400                         | 2023528.400                         | 2023529.400                          | 106 000                                              | 476 000                                                                 | 64                                    |
| 450                                    | 2023128.450                         | 2023129.450                                                      | 2023428.450                         | 2023528.450                         | 2023529.450                          | 153 500                                              | 686 000                                                                 | 70                                    |
| 500                                    | 2023128.500                         | 2023129.500                                                      | 2023428.500                         | 2023528.500                         | 2023529.500                          | 189 000                                              | 847 000                                                                 | 80                                    |
| Weight [kg / 1]                        |                                     |                                                                  |                                     |                                     |                                      |                                                      |                                                                         |                                       |

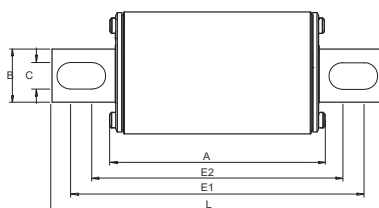
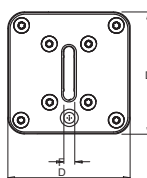
| Coefficients for Heavy Duty Applications |     |                   |     |     |
|------------------------------------------|-----|-------------------|-----|-----|
| a                                        | A2  | B1 <sub>max</sub> | B2  | Cf3 |
| 130                                      | 0.8 | 1.25              | 0.5 | 0.8 |

| Dimensions<br>[in / mm] |            |
|-------------------------|------------|
|                         | 2023128/9  |
| a1                      | 8.19 / 208 |
| a2                      | 5.28 / 134 |
| a5                      | 4.92 / 125 |
| b1                      | 1.26 / 32  |
| e1                      | 2.87 / 73  |
| e2                      | 2.87 / 73  |
| e4                      | 0.24 / 6   |
| c1                      | 2.36 / 60  |
| f                       | 0.63 / 16  |

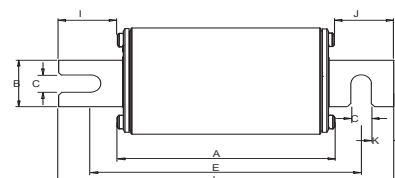
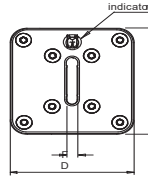


2023128 / 2023129

| Dimensions<br>[in / mm] |    |            |
|-------------------------|----|------------|
| 2023428                 |    | 2023528/9  |
| 5.14 / 131              | A  | 5.14 / 131 |
| 1.38 / 35               | B  | 1.38 / 35  |
| 0.63 / 16               | C  | 0.43 / 11  |
| 2.87 / 73               | D  | 2.87 / 73  |
| —                       | E  | 6.57 / 167 |
| 7.48 / 190              | E1 | —          |
| 6.14 / 156              | E2 | —          |
| 0.24 / 6                | F  | 0.24 / 6   |
| 8.46 / 215              | L  | 7.99 / 203 |



2023428



2023528 / 2023529

### Accessories

| Article Description                   | Article Number | Page | Article Description | Article Number | Page |
|---------------------------------------|----------------|------|---------------------|----------------|------|
| Fuse base 1-Pole ( 2023128/29)        | 2103128        | 547  |                     |                |      |
| Terminal cover                        | 2100501.26     |      |                     |                |      |
| Microswitch (red hammer) for 2003128  |                |      |                     |                |      |
| Standard level                        | 2800202        | 540  |                     |                |      |
| Grip handle, insertion / removal tool | 2203101        | 566  |                     |                |      |
| Grip handle, insertion / removal tool | 2203102        |      |                     |                |      |

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URDC-PV



NH3L

SQB3 - US

SQB3 - DIN

UL File E341342

Rated Voltage

[U<sub>n</sub>]1100V<sub>DC</sub>

Rated Breaking Test

Capacity

50kA @ L/R = 1 - 3ms

Voltage

1100V<sub>DC</sub>

Class

gPV

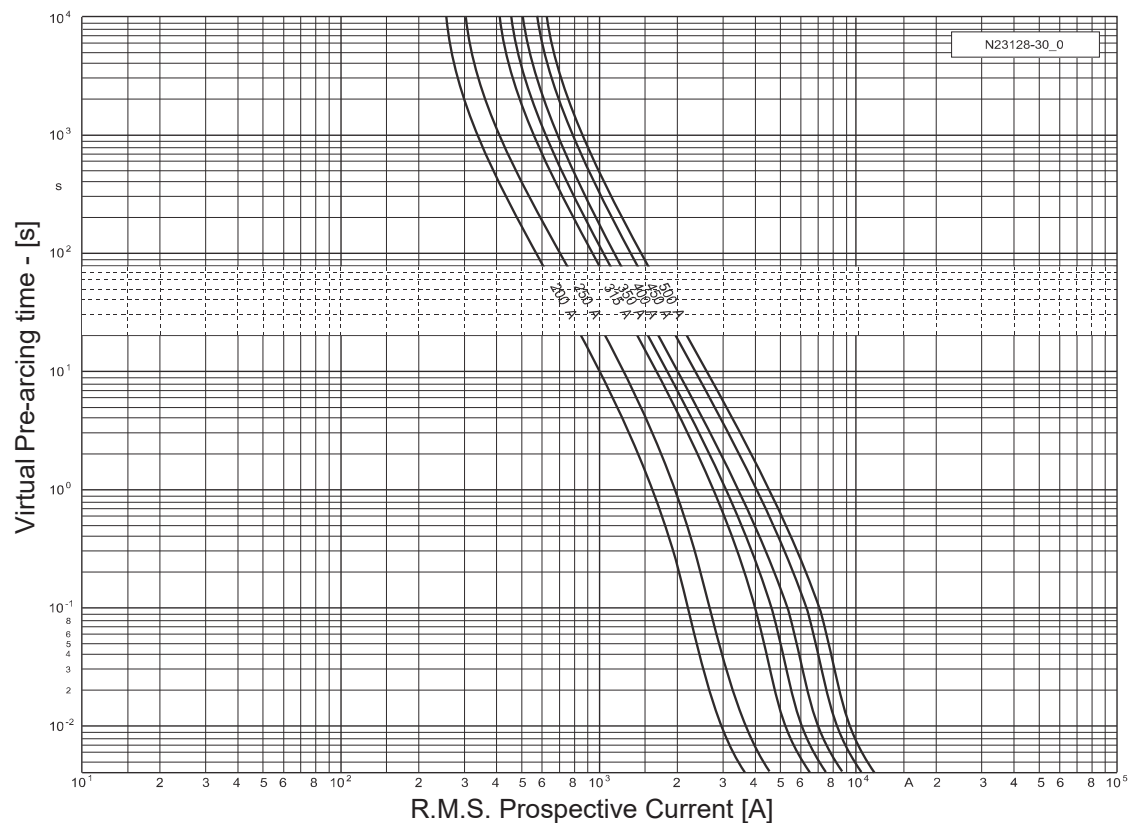
Standard(s)

UL 248-19

IEC 60269-6

VDE 0636-6

## Time-Current Characteristics



Full size graphs available upon request.

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| URDC-PV                                                                                   | Rated Voltage<br>[U <sub>n</sub> ]         | Rated Breaking Test<br>Capacity                                 | Class<br>gPV | Standard(s)              |
|-------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|--------------|--------------------------|
|  10x85mm | 1500V <sub>DC</sub><br>1500V <sub>DC</sub> | 10kA @ L/R = 1 - 3ms, 1A - 6A<br>30kA @ L/R = 1 - 3ms, 8A - 26A |              | UL 248-19<br>IEC 60269-6 |

## UL File E341342

| Rated current<br>I <sub>n</sub><br>[A] | Without indicator<br>Article Number |  | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t<br>@ 1500V <sub>DC</sub><br>[A <sup>2</sup> s] | Power loss<br>@ I <sub>n</sub><br>[W] |
|----------------------------------------|-------------------------------------|--|------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------|
| 1                                      | 5011528.1                           |  | 0.3                                                  | 0.5                                                                      | 1.6                                   |
| 2                                      | 5011528.2                           |  | 2.6                                                  | 4.8                                                                      | 2.5                                   |
| 3                                      | 5011528.3                           |  | 5.2                                                  | 8.8                                                                      | 3.5                                   |
| 4                                      | 5011528.4                           |  | 20                                                   | 32                                                                       | 4.0                                   |
| 5                                      | 5011528.5                           |  | 30                                                   | 45                                                                       | 4.2                                   |
| 10                                     | 5011528.10                          |  | 7.5                                                  | 62                                                                       | 3.4                                   |
| 12                                     | 5011528.12                          |  | 17                                                   | 140                                                                      | 3.5                                   |
| 15                                     | 5011528.15                          |  | 30                                                   | 250                                                                      | 3.8                                   |
| 16                                     | 5011528.16                          |  | 40                                                   | 330                                                                      | 3.9                                   |

## Coefficients for Heavy Duty Applications

| a   | A2  | B1 <sub>max</sub> | B2  | Cf3 |
|-----|-----|-------------------|-----|-----|
| 130 | 0.8 | 1.25              | 0.5 | 0.8 |



## Accessories

| Article Description       | Article Number | Page | Article Description | Article Number | Page |
|---------------------------|----------------|------|---------------------|----------------|------|
| Fuse module 1-Pole        | 5123805        | 562  |                     |                |      |
| Fuse clips PCB mounting   | 5806316        | 563  |                     |                |      |
| Fuse Clips PCB mounting   | 5806319        |      |                     |                |      |
| Fuse clips screw mounting | 5806317        |      |                     |                |      |
|                           |                |      |                     |                |      |
|                           |                |      |                     |                |      |

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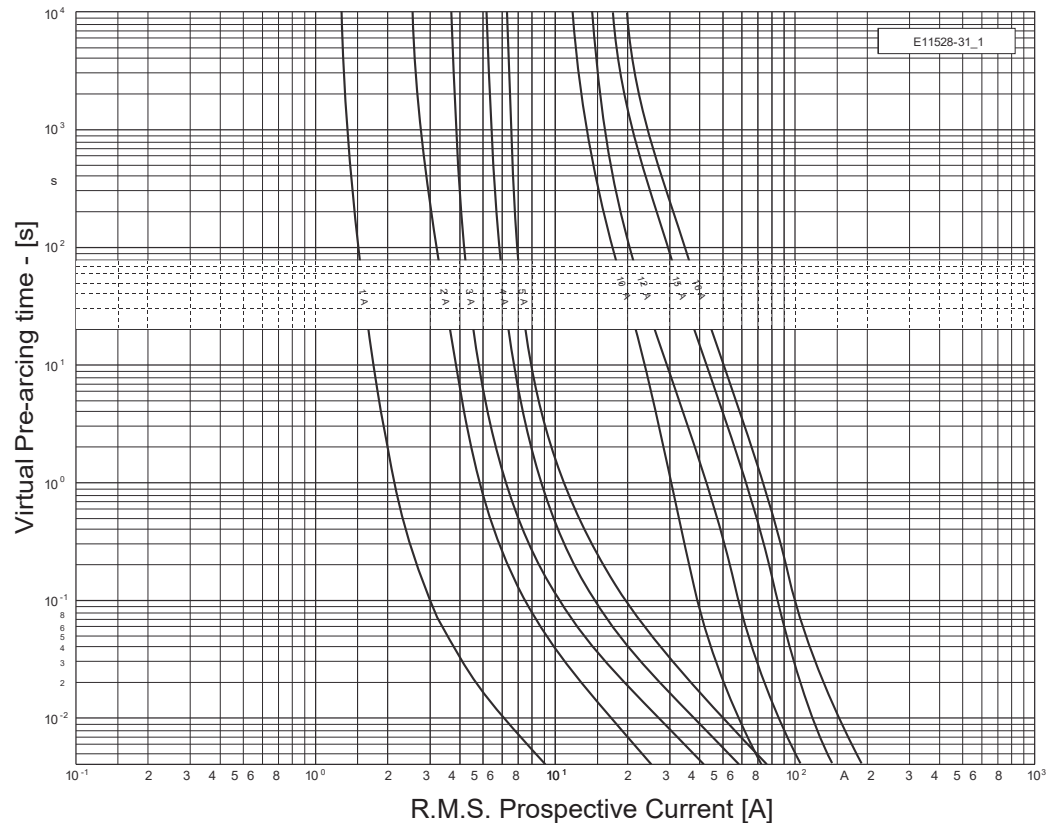
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e-mail: [info@sibafuse.com](mailto:info@sibafuse.com)

| URDC-PV                                                                          |         | Rated Voltage       | Rated Breaking Test            |                     | Class | Standard(s)              |
|----------------------------------------------------------------------------------|---------|---------------------|--------------------------------|---------------------|-------|--------------------------|
|                                                                                  |         | [U <sub>n</sub> ]   | Capacity                       | Voltage             | gPV   |                          |
|  | 10x85mm | 1500V <sub>DC</sub> | 10kA @ L/R = 1 - 3ms, 1A - 6A  | 1500V <sub>DC</sub> |       | UL 248-19<br>IEC 60269-6 |
|                                                                                  |         | 1500V <sub>DC</sub> | 30kA @ L/R = 1 - 3ms, 8A - 26A | 1500V <sub>DC</sub> |       |                          |
| UL File E341342                                                                  |         |                     |                                |                     |       |                          |

## Time-Current Characteristics



Full size graphs available upon request.

| URDC-PV                                                                           | Rated Voltage |                     | Rated Breaking Test Class |                     | Standard(s) |             |
|-----------------------------------------------------------------------------------|---------------|---------------------|---------------------------|---------------------|-------------|-------------|
|  | 14x65mm       | [U <sub>n</sub> ]   | Capacity                  | Voltage             | gPV         | UL 248-19   |
|                                                                                   | 14x65/85mm    | 1500V <sub>DC</sub> | 30kA @ L/R = 1 - 3ms      | 1500V <sub>DC</sub> |             | IEC 60269-6 |
|                                                                                   | 22x65mm       | 1500V <sub>DC</sub> | 50kA @ L/R = 1 - 3ms      | 1500V <sub>DC</sub> | 40A & 50A   |             |

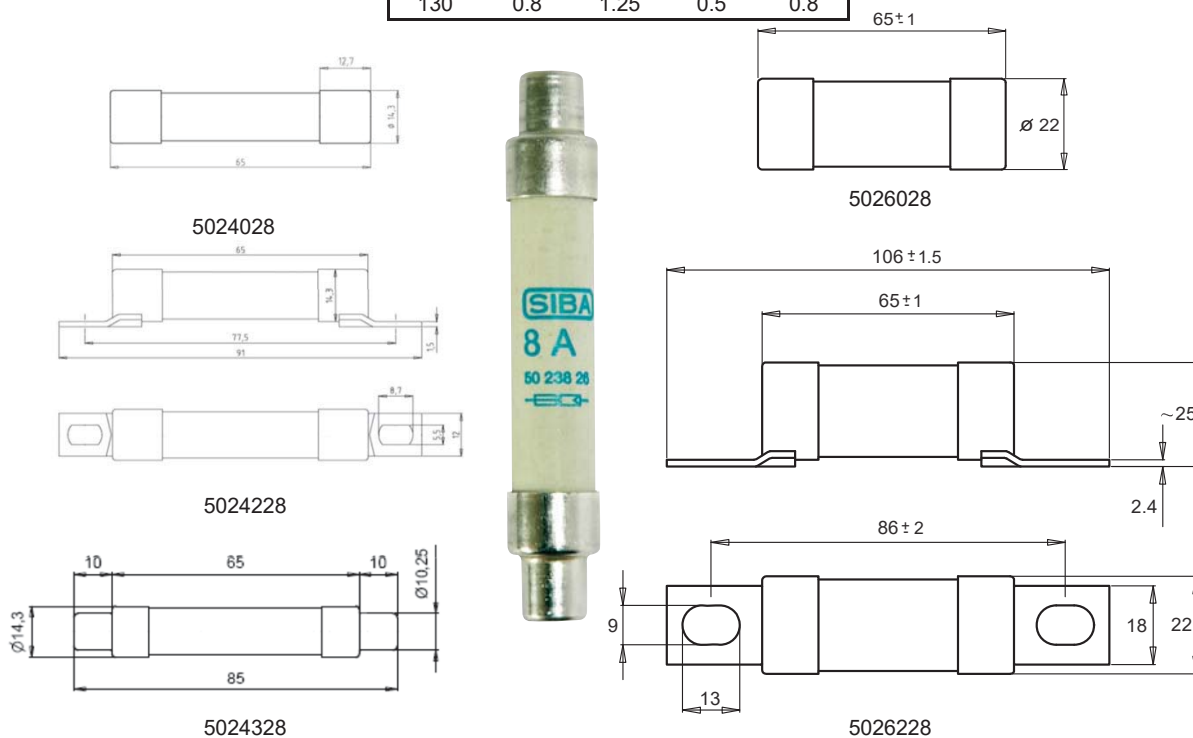
## UL File E341342

| Rated current<br>I <sub>n</sub><br>[A] | Without indicator<br>14x65mm<br>Article Number | Without indicator<br>77.5mm<br>mounting<br>Article Number | Without indicator<br>10/14mm<br>Clip Mount<br>Article Number | Without indicator<br>22x65mm<br>Article Number | Without indicator<br>86.2mm<br>mounting | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t<br>@1500V <sub>DC</sub><br>[A <sup>2</sup> s] | Power<br>loss<br>@ I <sub>n</sub><br>[W] |
|----------------------------------------|------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------|-----------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------|
| 10                                     | 5024028.10                                     | 5024228.10                                                | 5024328.10                                                   |                                                |                                         | 5                                                    | 41                                                                      | 4.0                                      |
| 12                                     | 5024028.12                                     | 5024228.12                                                | 5024328.12                                                   |                                                |                                         | 12                                                   | 100                                                                     | 4.2                                      |
| 15                                     | 5024028.15                                     | 5024228.15                                                | 5024328.15                                                   |                                                |                                         | 21                                                   | 170                                                                     | 4.5                                      |
| 16                                     | 5024028.16                                     | 5024228.26                                                | 5024328.16                                                   |                                                |                                         | 26                                                   | 210                                                                     | 4.7                                      |
| 20                                     | 5024028.20                                     | 5024228.20                                                | 5024328.20                                                   |                                                |                                         | 66                                                   | 540                                                                     | 5.0                                      |
| 25                                     | 5024028.25                                     | 5024228.25                                                | 5024328.25                                                   |                                                |                                         | 90                                                   | 730                                                                     | 6.0                                      |
| 30                                     | 5024028.30                                     | 5024228.30                                                | 5024328.30                                                   |                                                |                                         | 149                                                  | 1 350                                                                   | 7.0                                      |
| 40                                     |                                                |                                                           |                                                              | 5026028.40                                     | 5026228.40*                             | 415                                                  | 3 700                                                                   | 7.0                                      |
| 50                                     |                                                |                                                           |                                                              | 5026028.50                                     | 5026228.50*                             | 737                                                  | 6 600                                                                   | 9.0                                      |

\* No UL

## Coefficients for Heavy Duty Applications

| a   | A2  | B1 <sub>max</sub> | B2  | Cf3 |
|-----|-----|-------------------|-----|-----|
| 130 | 0.8 | 1.25              | 0.5 | 0.8 |



## Accessories

| Article Description           | Article Number | Page | Article Description       | Article Number | Page |
|-------------------------------|----------------|------|---------------------------|----------------|------|
| Fuse module 1-Pole ( 5024328) | 5123805        | 562  |                           |                |      |
|                               | 5024328        |      |                           | 5024028        |      |
| Fuse clips screw mounting     | 6100101.2      | 563  | Fuse clips PCB mounting   | 5806316        | 563  |
| Clamping plate for 6100101.2  | 6301701        |      | Fuse clips PCB mounting   | 5806319        |      |
| Fuse clips PCB mounting       | 5805806        |      | Fuse clips screw mounting | 5806317        |      |

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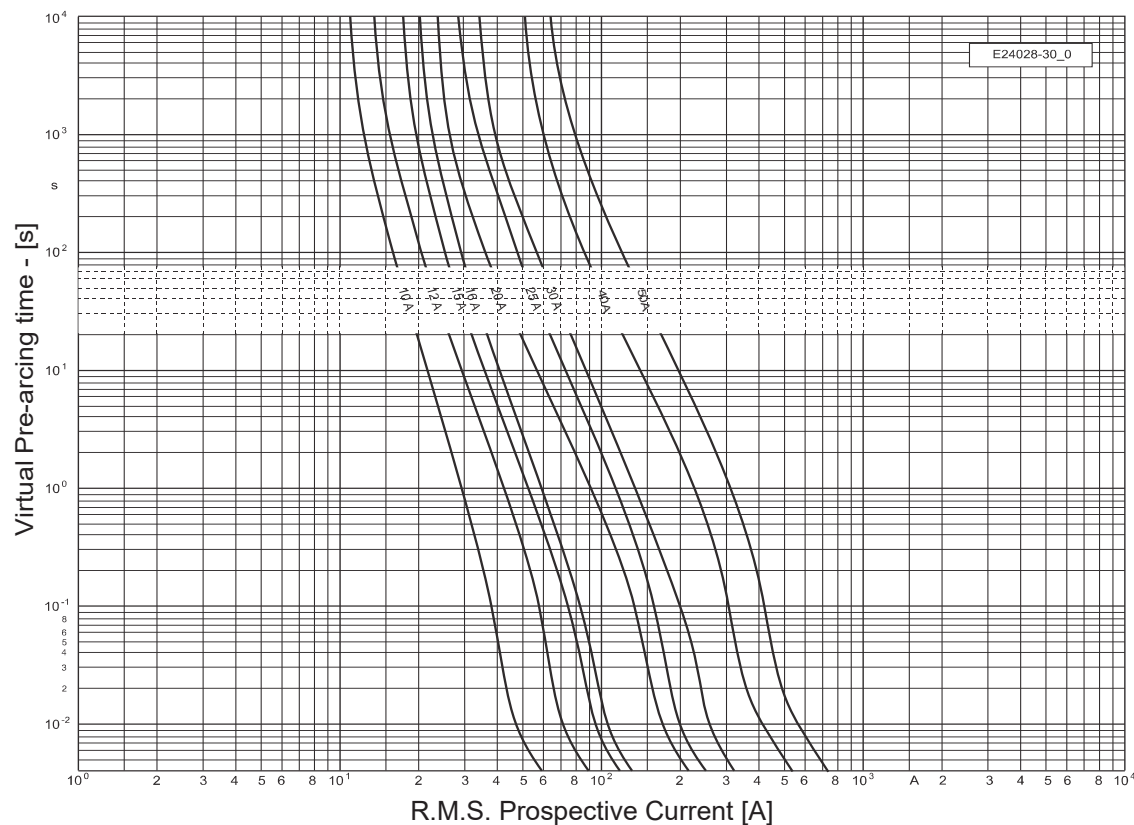
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| URDC-PV                                                                           | Rated Voltage                  | Rated Breaking Test  | Class                         | Standard(s) |
|-----------------------------------------------------------------------------------|--------------------------------|----------------------|-------------------------------|-------------|
|  | 14x65mm [U <sub>n</sub> ]      | Capacity             | gPV                           | UL 248-19   |
|                                                                                   | 14x65/85mm 1500V <sub>DC</sub> | 30kA @ L/R = 1 - 3ms | 1500V <sub>DC</sub>           | IEC 60269-6 |
|                                                                                   | 22x65mm 1500V <sub>DC</sub>    | 50kA @ L/R = 1 - 3ms | 1500V <sub>DC</sub> 40A & 50A |             |
| UL File E341342                                                                   |                                |                      |                               |             |

Time-Current Characteristics



Full size graphs available upon request.



| URDC-PV                                                                                        | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test<br>Capacity | Class<br>gPV        | Standard(s)              |
|------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------|---------------------|--------------------------|
|  NH1XL / SQB1 | 1500V <sub>DC</sub>                | 100kA @ L/R = 1 - 3ms           | 1500V <sub>DC</sub> | UL 248-19<br>IEC 60269-6 |
| UL File E341342                                                                                |                                    |                                 |                     |                          |

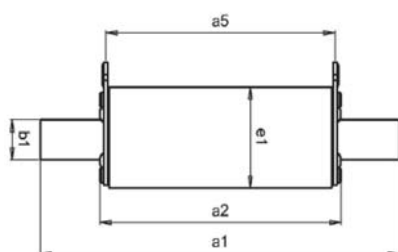
| Rated current<br>I <sub>n</sub><br>[A] | Without indicator<br>NH1XL<br>Article Number | With indicator<br>NH1XL<br>Article Number | Without indicator<br>SQB1 | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t*<br>@1500V <sub>DC</sub><br>[A <sup>2</sup> s] | Power loss<br>@ I <sub>n</sub><br>[W] |
|----------------------------------------|----------------------------------------------|-------------------------------------------|---------------------------|------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------|
| 50                                     | 2004128.50                                   |                                           | 2004528.50                | 361                                                  | 1 800                                                                    | 18                                    |
| 63                                     | 2004128.63                                   | 2004129.63                                | 2004528.63                | 480                                                  | 2 400                                                                    | 22                                    |
| 80                                     | 2004128.80                                   | 2004129.80                                | 2004528.80                | 1 060                                                | 5 300                                                                    | 24                                    |
| 100                                    | 2004128.100                                  | 2004129.100                               | 2004528.100               | 1 650                                                | 8 300                                                                    | 25                                    |
| 125                                    | 2004128.125                                  | 2004129.125                               | 2004528.125               | 2 950                                                | 15 000                                                                   | 27                                    |
| 160                                    | 2004128.160                                  | 2004129.160                               | 2004528.160               | 5 600                                                | 28 000                                                                   | 37                                    |
| 200                                    | 2004128.200                                  | 2004129.200                               | 2004528.200               | 14 300                                               | 71 000                                                                   | 44                                    |

\* NH2XL, 2004229, 160A, 200, 250 and 315A - Contact SIBA - info@sibafuse.com

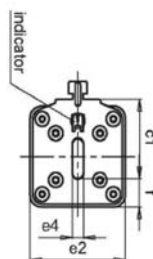
|           |                  |  |  |  |  |  |
|-----------|------------------|--|--|--|--|--|
| 160 - 315 | 2004229.160- 315 |  |  |  |  |  |
|-----------|------------------|--|--|--|--|--|

#### Coefficients for Heavy Duty Applications

| a      | A2      | B1 <sub>max</sub> | B2  | Cf3 |
|--------|---------|-------------------|-----|-----|
| 1300.8 | 0.81.25 |                   | 0.5 |     |

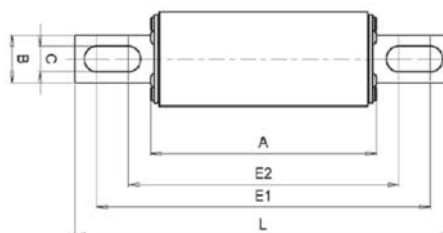
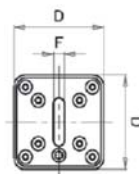


2004128 / 2004129



| Dimensions<br>[in / mm] |    |             |
|-------------------------|----|-------------|
| 2004128                 |    | 2004129     |
| 7.60 / 193              | a1 | 7.60 / 193  |
| 5.08 / 129              | a2 | 5.08 / 129  |
| 4.88 / 124              | a5 | 4.88 / 124  |
| 0.79 / 20               | b1 | 0.79 / 20   |
| 2.01 / 51               | e1 | 2.01 / 51   |
| 2.01 / 51               | e2 | 2.01 / 51   |
| 0.24 / 6                | e4 | 0.24 / 6    |
| 1.57 / 40               | c1 | 1.57 / 40   |
| 0.57 / 14.5             | f  | 0.57 / 14.5 |

|    | Dimensions<br>[in / mm] |
|----|-------------------------|
| A  | 5.08 / 129              |
| B  | 1.02 / 26               |
| C  | 0.55 / 14               |
| D  | 2.01 / 51               |
| E1 | 7.48 / 190              |
| E2 | 6.06 / 154              |
| F  | 0.24 / 6                |
| L  | 8.46 / 215              |



2004528



#### Accessories

| Article Description            | Article Number | Page | Article Description                  | Article Number | Page |
|--------------------------------|----------------|------|--------------------------------------|----------------|------|
| Fuse base 1-Pole ( 2004128/29) | 2102828        | 547  | Microswitch (red hammer) for 2003128 |                |      |
|                                |                |      | Standard level                       | 2800202        | 540  |
|                                |                |      | UL File E309038                      |                |      |
|                                |                |      |                                      |                |      |
|                                |                |      |                                      |                |      |

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URDC-PV

Rated Voltage

Rated Breaking Test

Class

Standard(s)



NH1XL / SQB1

[U<sub>n</sub>]1500V<sub>DC</sub>

Capacity

Voltage

gPV

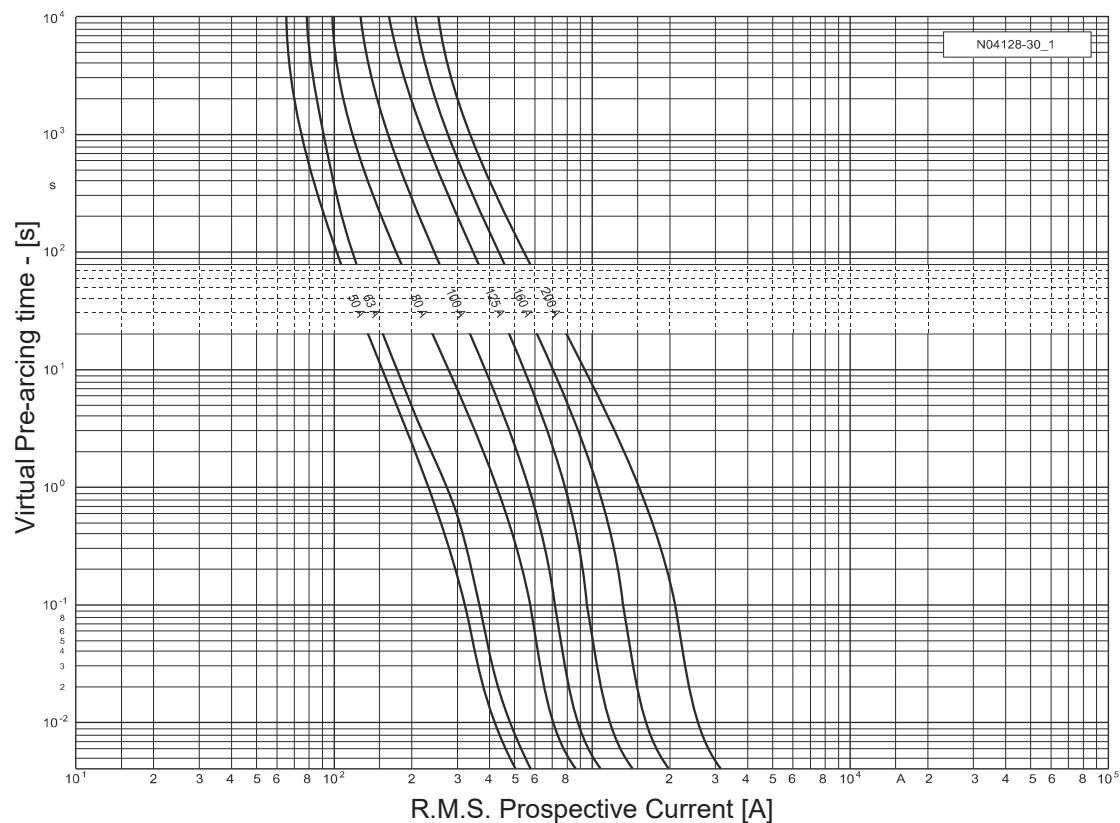
UL 248-19

100kA @ L/R = 1 - 3ms 1500V<sub>DC</sub>

IEC 60269-6

UL File E341342

## Time-Current Characteristics



Full size graphs available upon request.

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| URDC-PV                                                                                       | Rated Voltage<br>[U <sub>n</sub> ] | Rated Breaking Test Class<br>Capacity | Rated Breaking Test Class<br>Voltage | Standard(s)              |
|-----------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------|--------------------------------------|--------------------------|
|  NH3L / SQB3 | 1500V <sub>DC</sub>                | 100kA @ L/R = 1 - 3ms                 | gPV 1500V <sub>DC</sub>              | UL 248-19<br>IEC 60269-6 |
| UL File E341342                                                                               |                                    |                                       |                                      |                          |

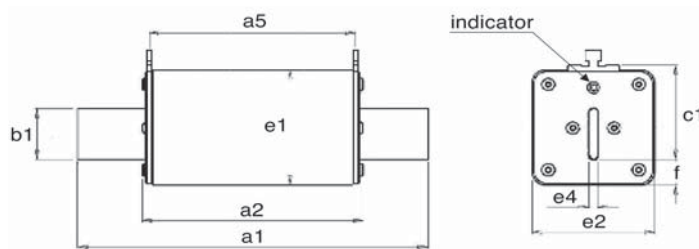
| Rated current<br>I <sub>n</sub><br>[A] | Without indicator<br>Article Number | With indicator<br>Article Number | Without indicator<br>Article Number | With indicator<br>Article Number | With indicator and fitting for microswitch<br>Article Number | Without indicator<br>Article Number | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Total<br>I <sup>2</sup> t*<br>@1500V <sub>DC</sub><br>[A <sup>2</sup> s] | Power loss<br>@ I <sub>n</sub><br>[W] |
|----------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|----------------------------------|--------------------------------------------------------------|-------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------|
|                                        | NH3L                                |                                  | SQB3 - DIN                          |                                  | SQB3 - US                                                    |                                     |                                                      |                                                                          |                                       |
| 200                                    | 2024328.200                         | 2024329.200                      | 2024528.200                         | 2024529.200                      | 2024727.200                                                  | 2024728.200                         | 19 200                                               | 108 000                                                                  | 37                                    |
| 250                                    | 2024328.250                         | 2024329.250                      | 2024528.250                         | 2024529.250                      | 2024727.250                                                  | 2024728.250                         | 32 000                                               | 192 000                                                                  | 43                                    |
| 315                                    | 2024328.315                         | 2024329.315                      | 2024528.315                         | 2024529.315                      | 2024727.315                                                  | 2024728.315                         | 57 000                                               | 342 000                                                                  | 54                                    |
| 350                                    | 2024328.350                         | 2024329.350                      | 2024528.350                         | 2024529.350                      | 2024727.350                                                  | 2024728.350                         | 77 000                                               | 480 000                                                                  | 60                                    |
| 400                                    | 2024328.400                         | 2024329.400                      | 2024528.400                         | 2024529.400                      | 2024727.400                                                  | 2024728.400                         | 106 000                                              | 640 000                                                                  | 65                                    |
| 450                                    | 2024328.450                         | 2024329.450                      | 2024528.450                         | 2024529.450                      | 2024727.450                                                  | 2024728.450                         | 153 000                                              | 920 000                                                                  | 70                                    |
| 500                                    | 2024328.500                         | 2024329.500                      | 2024528.500                         | 2024529.500                      | 2024727.500                                                  | 2024728.500                         | 189 000                                              | 1 010 000                                                                | 80                                    |

\*L/R = 3ms

## Coefficients for Heavy Duty Applications

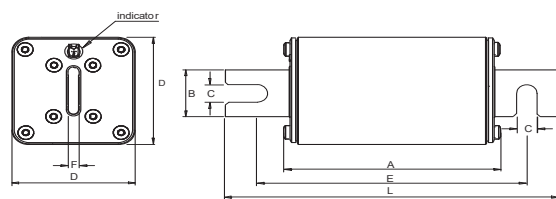
|     |     |                   |     |     |
|-----|-----|-------------------|-----|-----|
| a   | A2  | B1 <sub>max</sub> | B2  | Cf3 |
| 130 | 0.8 | 1.25              | 0.5 | 0.8 |

|    | Dimensions<br>[in / mm] |
|----|-------------------------|
|    | 2024328/9               |
| a1 | 8.19 / 208              |
| a2 | 5.28 / 134              |
| a5 | 4.92 / 125              |
| b1 | 1.26 / 32               |
| e1 | 2.87 / 73               |
| e2 | 2.87 / 73               |
| e4 | 0.24 / 6                |
| c1 | 2.36 / 60               |
| f  | 0.63 / 16               |

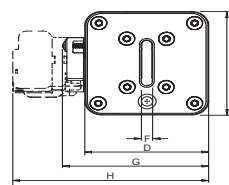


2024328 / 2024329

|              | Dimensions<br>[in / mm] |              | Dimensions<br>[in / mm] |
|--------------|-------------------------|--------------|-------------------------|
| 2024528/9    |                         | 204727/8     |                         |
| 5.14 / 130.5 | A                       | 5.14 / 130.5 |                         |
| 1.38 / 35    | B                       | 1.38 / 35    |                         |
|              | C                       | 0.63 / 16    |                         |
| 2.87 / 73    | D                       | 2.87 / 73    |                         |
| 6.57 / 167   | E                       | -            |                         |
| -            | E1                      | 7.48 / 190   |                         |
| -            | E2                      | 6.14 / 156   |                         |
| 0.24 / 6     | F                       | 0.24 / 6     |                         |
| -            | G                       | 3.46 / 88    |                         |
| -            | H                       | 4.80 / 122   |                         |
| 7.80 / 198   | L                       | 8.46 / 215   |                         |



2024528 / 2024529



2024727 / 2024728

## Accessories

| Article Description | Article Number | Page | Article Description         | Article Number | Page |
|---------------------|----------------|------|-----------------------------|----------------|------|
| Fuse base 1-Pole    | 2103128        | 547  | Microswitch - Single NO-NC, |                |      |
|                     |                |      | Standard level              | 2800310        | 542  |
|                     |                |      | Low level                   | 2800410        |      |
|                     |                |      |                             |                |      |
|                     |                |      |                             |                |      |

SIBA LLC

Phone 1-973-575-7422  
Fax 1-973-575-5858

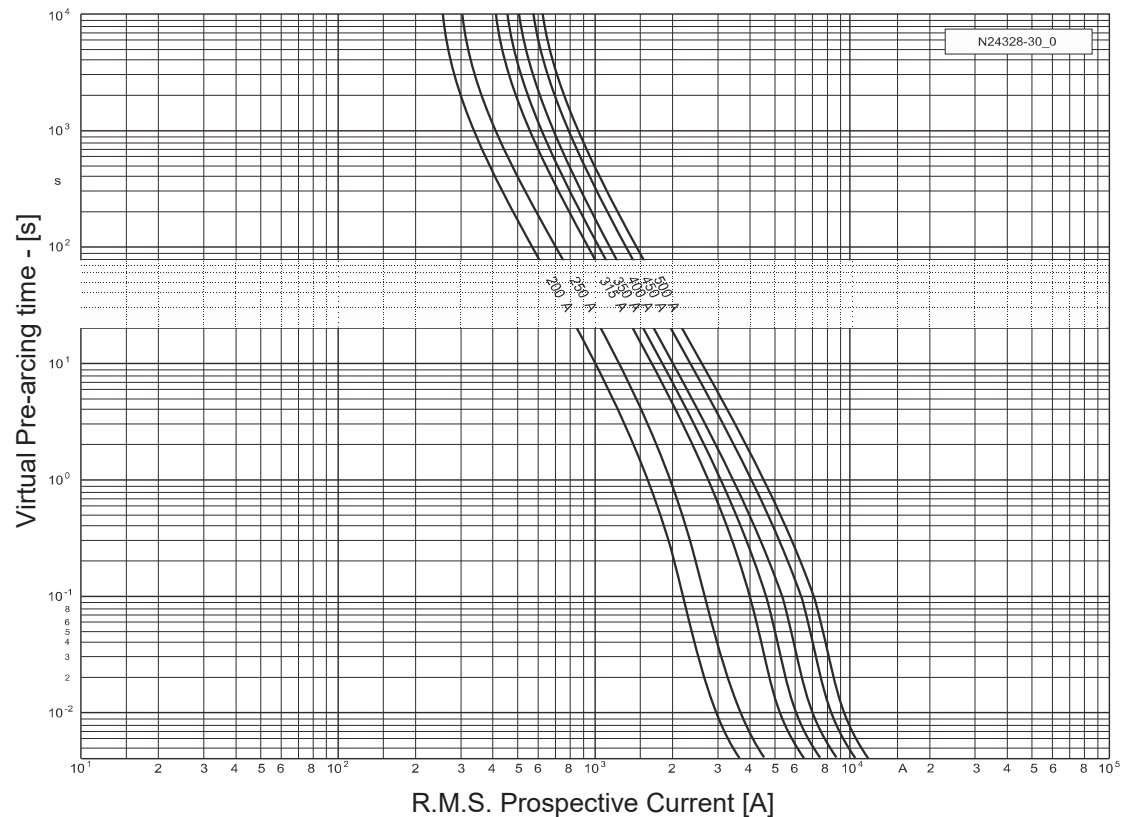
29 Fairfield Place  
West Caldwell, New Jersey 07006

portal: [www.siballc.net](http://www.siballc.net)  
e-mail: [info@sibafuse.com](mailto:info@sibafuse.com)

| URDC-PV                                                                                      | Rated Voltage       | Rated Breaking Test   |                     | Class | Standard(s)              |
|----------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------|-------|--------------------------|
|                                                                                              | [U <sub>n</sub> ]   | Capacity              | Voltage             | gPV   |                          |
|  NH3L / SQB3 | 1500V <sub>DC</sub> | 100kA @ L/R = 1 - 3ms | 1500V <sub>DC</sub> |       | UL 248-19<br>IEC 60269-6 |

**UL File E341342**

### Time-Current Characteristics



Full size graphs available upon request.