# VSP Series

## Description:

VSP series square body fuses are designed for semiconductor protection. It can provide protection for semiconductor, rectifier, AC/DC drive and UPS, etc.

## Features:

- Designed according to IEC60269, DIN43620, GB13539
- Complying with CE and RoHS
- UL certificated
- Multiple mounting configurations
  - Terminal D11 (DIN 43 653)
  - Terminal D08 (DIN 43 620)
  - Terminal FS (Flush End)
  - Terminal FB (French Style)
  - Terminal AB (US Style)
  - Terminal BB (Buss-bar Style)
- Operating class:
  - gR for semiconductor protection
  - aR for semiconductor protection


## Ordering Information:

V S P - X X X X (S) X X X A X X X V X X

- X X X X: Installation dimension code (Optional)
- Size code
- (S): Only for special family
- X X X: Current rating
- A: Voltage rating
- X X X: Terminal type code
- V
- X X

## Note:

For size code, size B is defaulted.

While terminal type is optional, the terminal type code should be indicated immediately behind the voltage rating, and the D11 type is default;

Indicator is optional, and followed by a indicator code while indicator is necessary, such as V1 for type 1 visual Indicator (default), V2 for type 2 visual Indicator, T for type T indicator, K for type K indicator, etc. Read *Introduction for indicators* for more detail.

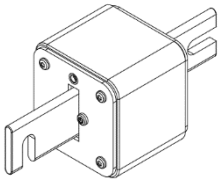
While gR/aR are optional, aR is default and gR should followed the indicator code.

Eg. VSP-B 100A690V D08-V2-gR

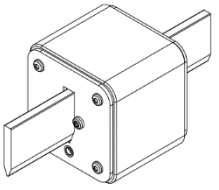
| Terminal type code | Terminal type |
|---|---|
| D11 | Terminal D11 |
| D08 | Terminal D08 |
| FS | Terminal FS |
| FB | Terminal FB |
| AB | Terminal AB |
| BB | Terminal BB |

| Size code | Maximum cross section size of body |
|---|---|
| 000 | 21×36 |
| 00 | 30×47 |
| 0 | 30×65 |
| A | 45×45 |
| B | 53×53 |
| C | 61×61 |
| D | 68×68 |
| E | 76×76 |
| F | 78×78 |
| G | 85×85 |
| H | 105×105 |
| I | 118×118 |

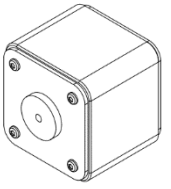
## Terminal type:



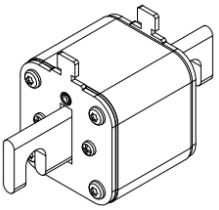
Terminal D11



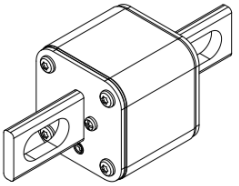
Terminal D08



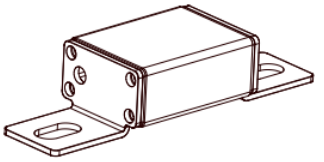
Terminal FS



Terminal FB



Terminal AB



Terminal BB

# Fuse Selection Recommendations

## Selection of The Voltage Rating $U_n$

The voltage rating $U_n$ of a semiconductor fuse should be larger than the line to line voltage $U_{line\ to\ line}$ and fault voltage $U_{fault}$:

$$U_n > U_{line\ to\ line} \ \& \ U_n > U_{fault}$$

In regenerative DC drives, $U_{fault}$ is higher than $U_{line\ to\ line}$;

Faults are not always with an AC voltage (inverters & regenerative DC drives);

Examples: Generally, the fuse voltage rating $U_n$ should satisfy the following conditions.

| | | |
|---|---|---|
| Fuse complying with IEC 60269 | For most ratings | $1.06\ U_n \geq U_{ac\ max}$ |
| | For some ratings | $1.1\ U_n \geq U_{ac\ max}$ |
| | For some 690V fuses | $1.05\ U_n \geq U_{ac\ max}$ |
| Fuses complying with UL248 only | | $U_n \geq U_{ac\ max}$ |

Note: $U_{ac\ max}$ is the max R.M.S. value of the line to line voltage.
$U_{ac\ max}$ = rated voltage + possible variation (usually +5% to 10%).

## Selection of The Current Rating $I_n$

The current rating of the fuse $I_n$ should be larger than the R.M.S. value in the circuit.

$$I_n \geq I_{R.M.S.}$$

Corrective coefficients should be taking into account for some special conditions:

- ambient temperature inside the cubicle;
- cooling;
- size of cables or bars connected to the fuse;
- variations of the current;

What's more, a suitable melting curve at 15ms would be required while coordinating with a circuit breaker. A fuse rating larger than that calculated from the R.M.S. value of the current would be required in such coordination.

## Selection of The Total $I^2t$

The total $I^2t$ should be less than that of the semiconductor junction and the semiconductor case rupture:

Total $I^2t$ of the fuse < $I^2t$ of the semiconductor junction

&

Total $I^2t$ of the fuse < $I^2t$ of the semiconductor case rupture

A lower voltage is always selected in real application. In this case, the total $I^2t$ would be reduced as the current limiting action is more effective.

## Selection of The Breaking Capacity

The breaking capacity of the fuse $I_R$ should be higher than the largest R.M.S. value of the short circuit current $I_{fault}$:

$$I_R > I_{fault}$$

## Selection of The Minimum Interrupting Capacity

The minimum interrupting capacity of the fuse should be higher than the minimum fault current.

## Selection of The Arc Voltage

The peak arc voltage of the fuse should be less than the reverse voltage of the semiconductor. Generally, a curve of maximum peak arc voltages VS applied voltage would be required while considering the arc voltage.

## Selection for Circuit with Overload Current

"Overload" is generally used for excess current flowing in a circuit which is electrically sound. Overload currents are usually not much greater than the normal full-load current of the system. As a rough rule, the overload current is less than 8 or 10 times the current rating.

The imposed max overload current $I_{max}$ is related with the duration and the frequency of occurrence. While select a fuse for the application, it is helpful to utilize the time/current curve of the fuse and the formula "$I_{max}$ < factor % × $I_t$". $I_t$ can be read from the time/current curve for a certain time t. The general guidelines are listed as follow:

| Frequency of Occurrence | Overloads | |
|---|---|---|
| | > 1 sec | < 1 sec |
| Less than once per month | $I_{max} < 80\% \times I_t$ | $I_{max} < 70\% \times I_t$ |
| Less than twice per week | $I_{max} < 70\% \times I_t$ | $I_{max} < 60\% \times I_t$ |
| Several times per day | $I_{max} < 60\% \times I_t$ | $I_{max} < 50\% \times I_t$ |

## Example:

Considering a circuit should withstand some occurrence of overload current and need for short-circuit current protection. Then the VSP 400A700V FS-K would be taken as an example.

VSP 400A700V FS-K is designed according to IEC 60269 (690V), and it is certificated by UL (700V). The total $I^2t$ is $103.6\times10^3$ $A^2s$, the breaking capacity is 100kA (700V), the max arc voltage is about 1300V while the applied voltage is 700V.

Therefore,

the $U_{ac\ max}$ in a circuit should be less than 1.05×690V=724.5V;

the R.M.S. value in the circuit $I_{R.M.S}$<400A;

the total $I^2t$ of the semiconductor junction or the semiconductor case rupture should be larger than $103.6\times10^3$ $A^2s$;

the short circuit current $I_{fault}$ should be less than 100kA;

the max reverse voltage of the semiconductor should be less than 1300V while the applied voltage is 700V;

the imposed max overload current $I_{max}$ should be less than 570A while an overload occurs one time per hour and last for 60 sec. It is calculated from the expression $I_{max} < 60\% \times I_t$ with $I_t$ read from the time/current curve of VSP 400A700V FS-K.

While all the situation in the circuit satisfying the above conditions, VSP 400A700V FS-K is the right fuse you are looking for. If not, try another one.

# 690V

## Ratings:

Voltage Rating:
- AC 380V
- AC 500V
- AC 690V
- AC 1000V

Current Rating:
- 10A-1000A

Interrupt Rating:
- 100kA-200kA

Terminal D11

## Mechanical Dimensions:

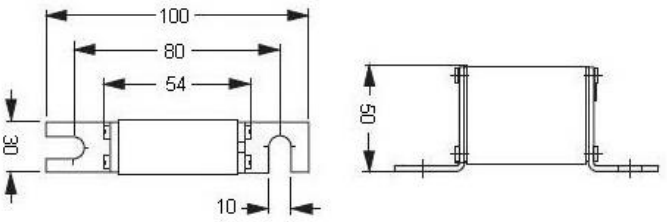



Fig. 1

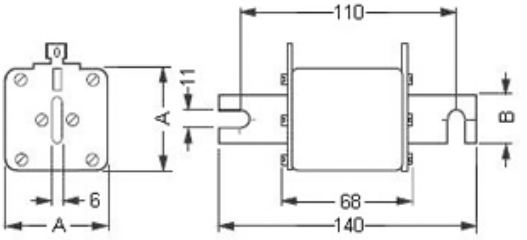



Fig. 2

| Size | Current Rating (A) | Mechanical Dimensions (Tolerances: ±3.5mm) | | |
|---|---|---|---|---|
| | | A | B | C |
| 00 | 25-400 | Shown in Fig. 1 | | |
| BS | 80-250 | 48 | 26 | 135 |
| CS | 200-400 | 58 | 32 | 150 |
| DS | 315-630 | 68 | 38 | 150 |

## Electrical Specifications:

| Catalog Numbers | Current Rating (A) | Voltage Rating (V) | Interrupt Rating | Weight & Packaging |
|---|---|---|---|---|
| VSP-00 | 25 | AC 380V<br>AC 500V<br>AC 690V | 100kA | 0.2 KG/PCS (app.)<br>10PCS/Carton |
| | 32 | | | |
| | 40 | | | |
| | 50 | | | |
| | 63 | | | |
| | 80 | | | |
| | 100 | | | |
| | 125 | | | |
| | 160 | | | |
| | 200 | | | |
| | 250 | | | |
| | 315 | | | |
| | 350 | | | |
| | 400 | | | |
| VSP-BS | 80 | AC 380V<br>AC 500V<br>AC 690V<br>AC 1000V | | 0.5 KG/PCS (app.)<br>10PCS/Carton |
| | 100 | | | |
| | 125 | | | |
| | 200 | | | |
| | 250 | | | |

# 690V

| Catalog Numbers | Current Rating (A) | Voltage Rating (V) | Interrupt Rating | Weight & Packaging |
|---|---|---|---|---|
| VSP-CS | 200 | AC 380V<br>AC 500V<br>AC 690V<br>AC 1000V | 100kA | 0.7KG/PCS (app.)<br>10PCS/Carton |
| | 250 | | | |
| | 280 | | | |
| | 315 | | | |
| | 355 | | | |
| | 400 | | | |
| VSP-DS | 315 | | | 0.9KG/PCS (app.)<br>10PCS/Carton |
| | 400 | | | |
| | 450 | | | |
| | 500 | | | |
| | 630 | | | |

# 690V

## Terminal D08

## Mechanical Dimensions:

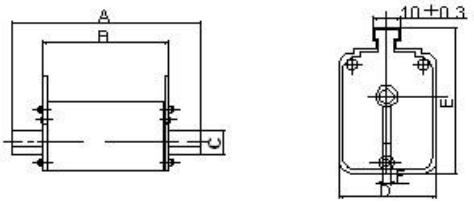



Fig. 1

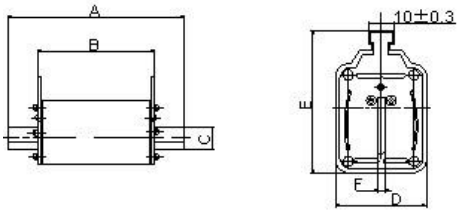



Fig. 2

| Size | Ref. Fig. | Current Rating (A) | Mechanical Dimensions (Tolerances: ±3.5mm) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| 000 | 1 | 10-315 | 78 | 49 | 15 | 21 | 48 | 6 |
| 00 | 1 | 25-160 | 78 | 49 | 15 | 29 | 57 | 6 |
| BS | 2 | 80-250 | 132 | 66 | 20 | 48 | 62 | 6 |
| CS | 2 | 200-400 | 148 | 67 | 26 | 58 | 71 | 6 |
| DS | 2 | 350-630 | 148 | 67 | 32 | 67 | 85 | 6 |

## Electrical Specifications:

| Catalog Numbers | Current Rating (A) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|
| VSP-000 | 10 | AC 690V (IEC)<br>AC 700V (UL) | 100kA@690V | aR |
| | 16 | | | |
| | 20 | | | |
| | 25 | | | |
| | 32 | | | |
| | 40 | | | |
| | 50 | | | |
| | 63 | | | |
| | 80 | | | |
| | 100 | | | |
| | 125 | | | |
| | 160 | | | |
| | 200 | | | |
| | 250 | | | |
| | 315 | | | |

# 690V

| Catalog Numbers | Current Rating (A) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|
| VSP-00 | 25 | AC 690V (IEC)<br>AC 700V (UL) | 100kA@690V | aR |
| | 32 | | | |
| | 40 | | | |
| | 50 | | | |
| | 63 | | | |
| | 80 | | | |
| | 100 | | | |
| | 125 | | | |
| | 160 | | | |
| VSP-BS | 80 | | | |
| | 100 | | | |
| | 125 | | | |
| | 160 | | | |
| | 200 | | | |
| | 250 | | | |
| VSP-CS | 200 | | | |
| | 250 | | | |
| | 315 | | | |
| | 350 | | | |
| | 400 | | | |
| VSP-DS | 350 | | | |
| | 400 | | | |
| | 450 | | | |
| | 500 | | | |
| | 630 | | | |

# 690V

## Fuse Base for VSP-XX XXXA690V D08 Series

## Basic Information:

| Products Pic. | Catalog Numbers | Referred Fuse | Current Rating (A) | Voltage Rating (V) | Connection Style | Weight & Packaging |
|---|---|---|---|---|---|---|
|  | NT00-SIST101 | VSP-000 XXXA690V D08 & VSP-00 XXXA690V D08 | 160 | AC 500V<br>AC 690V<br>DC 250V | One pole，for double terminal connection | 225g/PCS (app.)<br>3PCS/Carton |
|  | NT1-SIST201 | VSP-BS XXXA690V D08 | 250 | | One pole，for double terminal connection | 740g/PCS (app.)<br>1PCS/Carton |
|  | NT2-SIST401 | VSP-CS XXXA690V D08 | 400 | AC 500V<br>AC 690V<br>DC 440V | One pole，for double terminal connection | 1110g/PCS (app.)<br>1PCS/Carton |
|  | NT3-SIST601 | VSP-DS XXXA690V D08 | 630 | | One pole，With screw-type terminal connection | 1310g/PCS (app.)<br>1PCS/Carton |

# 690V

## Fuse Base for VSP-XX XXXA690V D08 Series

## Mechanical Dimensions:

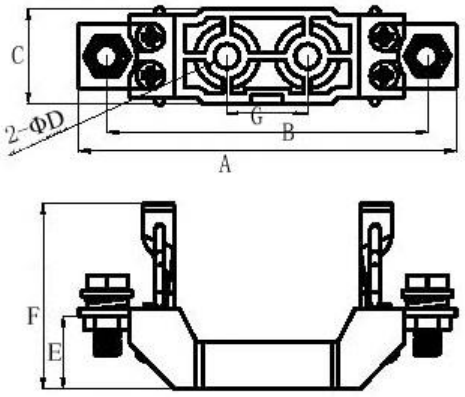



Fig. 1

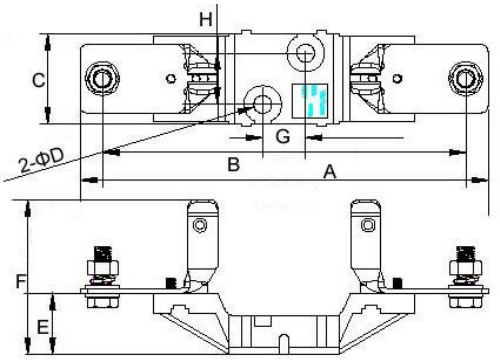


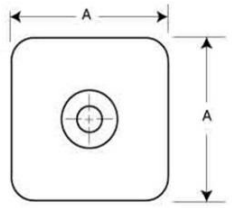

Fig. 2

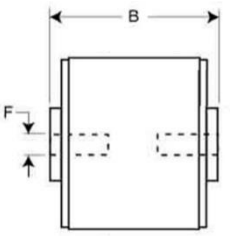
| Catalog Numbers | Ref. Fig. | Current Rating (A) | Mechanical Dimensions (Tolerances: ±4mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | ϕD | E | F | G | H |
| NT00-SIST101 | 1 | 160 | 118 | 100 | 30 | 7 | 23 | 57 | 25 | - |
| NT1-SIST201 | 2 | 250 | 200 | 175 | 53 | 10 | 34 | 82 | 25 | 30 |
| NT2-SIST401 | | 400 | 225 | 200 | 53 | 10 | 35 | 95 | 25 | 30 |
| NT3-SIST601 | | 630 | 237 | 210 | 53 | 10 | 35 | 90 | 25 | 30 |

# 690V

## Terminal FS

### Mechanical Dimensions:




| Size | Current Rating (A) | Mechanical Dimensions (Tolerances: ±3.5mm) | | |
|---|---|---|---|---|
| | | A | B | F |
| CS | 200-400 | 58 | 77 | 10 |
| DS | 315-630 | 68 | 77 | 12 |

### Electrical Specifications:

| Catalog Numbers | Current Rating (A) | Voltage Rating (V) | Interrupt Rating | Weight & Packaging |
|---|---|---|---|---|
| VSP-CS | 200 | AC 500V<br>AC 690V<br>AC 1000V | 100kA | * |
| | 250 | | | |
| | 280 | | | |
| | 315 | | | |
| | 355 | | | |
| | 400 | | | |
| VSP-DS | 315 | | | * |
| | 355 | | | |
| | 400 | | | |
| | 450 | | | |
| | 500 | | | |
| | 630 | | | |

# 690V

## Terminal BB

## Mechanical Dimensions:

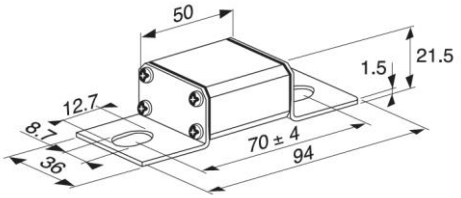



Fig. 1

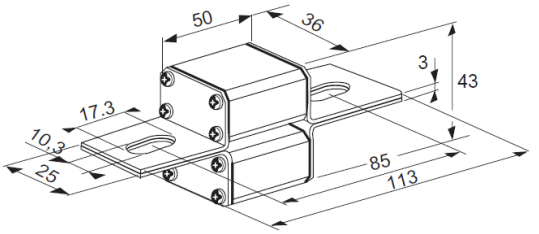



Fig. 2

## Electrical Specifications:

| Catalog Numbers | Ref. Fig. | Current Rating (A) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|
| VSP-000 | 1 | 20 | AC 690V | 200kA @690V AC | gR |
| | | 25 | | | |
| | | 32 | | | |
| | | 40 | | | |
| | | 50 | | | |
| | | 63 | | | |
| | | 80 | | | |
| | | 100 | | | |
| | | 125 | | | |
| | | 160 | | | |
| | | 200 | | | |
| | | 250 | | | |
| | | 315 | | | |
| | | 350 | AC 500V | 100kA @500V AC | |
| | | 400 | | | |
| 2×VSP-000 | 2 | 175 | AC 690V | 200kA @690V AC | |
| | | 200 | | | |
| | | 235 | | | |
| | | 300 | | | |
| | | 325 | | | |
| | | 355 | | | |
| | | 400 | | | |
| | | 450 | | | |
| | | 500 | | | |
| | | 630 | | | |

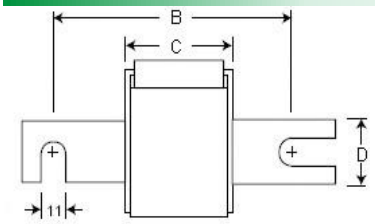
# 690V (IEC) / 700V (UL)

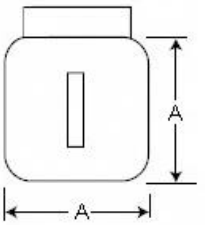
## Ratings:

Voltage Rating:
AC 690V (IEC)
AC 700V (UL)
Current Rating:
20A-7500A
Interrupt Rating:
200KA

## Mechanical Dimensions:

### Terminal D11



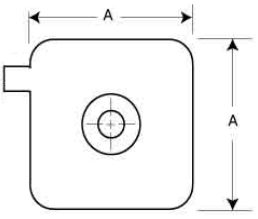



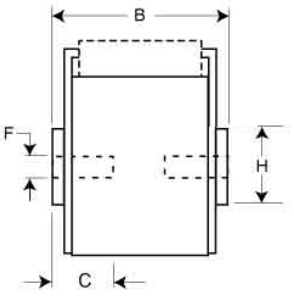

| Size | Current Rating (A) | Mechanical Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | | A | Type LL Contact B | Type L Contact B | C | D |
| A | 40-630 | 45 | 108 | 78 | 50 | 22 |
| B | 200-900 | 53 | 108 | 78 | 50 | 25 |
| C | 400-1250 | 60 | 108 | 78 | 50 | 25 |
| E | 500-2000 | 75 | 108 | 78 | 51 | 30 |

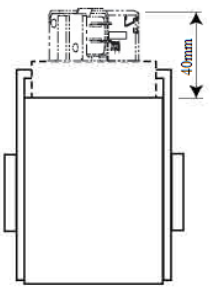
Note:
Type LL contact and Type L contact is optional for Installation dimension B, and Type L contact should be indicated while ordering (eg. VSP-LE 1500A700V D11).

### Terminal D08 (See NT1/NT2/NT3)

### Terminal FS



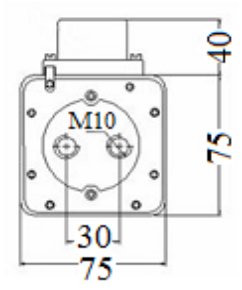



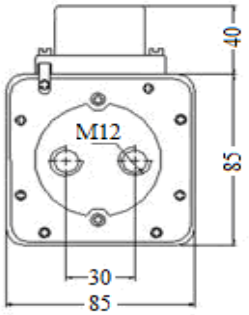

| Size | Current Rating (A) | Mechanical Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | | A | B | C | H | F |
| A | 40-630 | 45 | 51 | 5 | Φ17 | M8 |
| B | 200-900 | 53 | 51 | 8 | Φ20 | M8 |
| C | 400-1250 | 61 | 51 | 10 | Φ24 | M10 |
| E | 500-2000 | 76 | 53 | 10 | Φ30 | M12 |
| G | 2000-2800 | 85 | 58 | 10 | Φ30 | M14 |
| H | 2800-4000 | 105 | 67 | 15 | Φ45 | M16 |

# 690V (IEC) / 700V (UL)

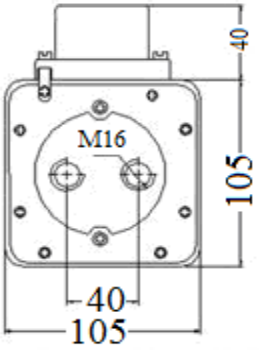
Note:




Size F Double M10

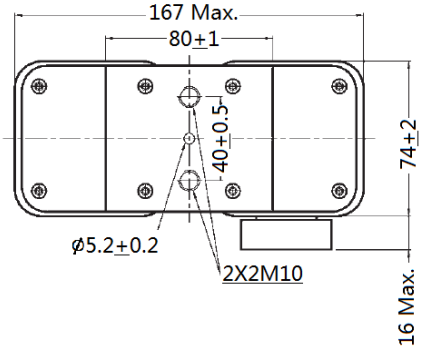


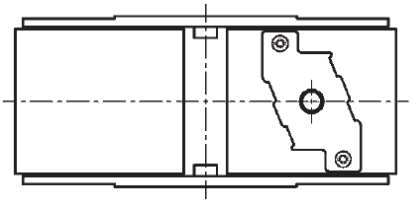

Size G Double M12

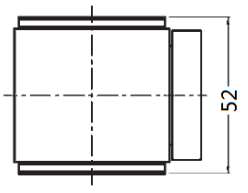



Size H Double M16

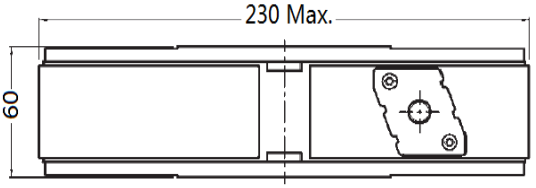
## Dimensions for 2×VSP-E

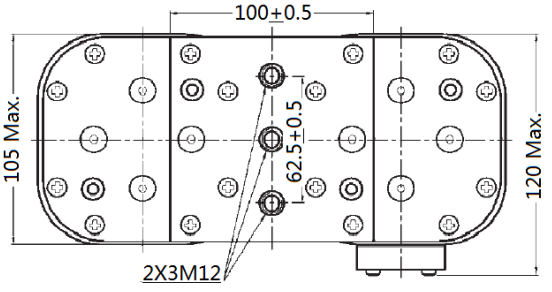


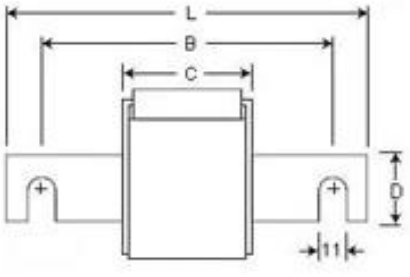


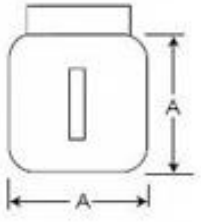

## Dimensions for 2×VSP-H




## Terminal FB

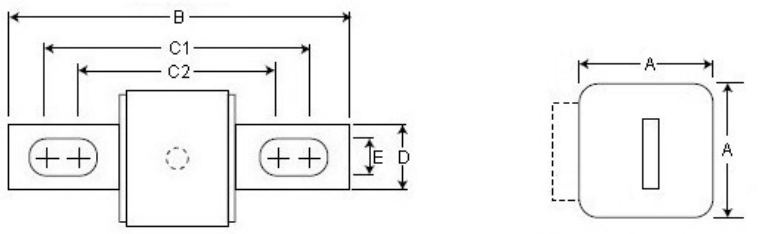


# 690V (IEC) / 700V (UL)

| Size | Current Rating (A) | Mechanical Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | | A | B | C | D | L |
| A | 40-630 | 45 | 76 | 50 | 18 | 102 |
| B | 200-900 | 53 | 86 | 50 | 25 | 111 |
| C | 400-1250 | 61 | 91 | 50 | 30 | 126 |
| E | 500-2000 | 75 | 91 | 51 | 36 | 126 |

## Terminal AB




| Size | Current Rating (A) | Mechanical Dimensions (mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | Type LL Contact | | Type L Contact | | D | E |
| | | | | C1 | C2 | C1 | C2 | | |
| A | 40-630 | 45 | 110 | 85 | 123 | 72 | 110 | 20 | 10 |
| B | 200-900 | 53 | 135 | 104 | 126 | 78 | 100 | 25 | 14 |
| C | 400-1250 | 61 | 135 | 105 | 125 | 78 | 99 | 25 | 14 |
| E | 500-2000 | 75 | 135 | 106 | 125 | 77 | 97 | 36 | 16 |

Note:

Type LL contact and Type L contact is optional for Installation dimension C1 and C2, and Type L contact should be indicated while ordering (eg. VSP-LE 1500A700V AB).

## Electrical Specifications:

| Catalog Numbers | Current Rating (A) | Pre-arcing $10^3\times I^2t$ ($A^2s$) | $10^3\times I^2t$ ($A^2s$, 700V) | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-A | 20 | * | * | * | 690V(IEC) 700V(UL) | 200KA | gR/aR |
| | 32 | * | * | * | | | |
| | 40 | * | * | * | | | |
| | 50 | * | * | * | | | |
| | 63 | * | * | * | | | |
| | 80 | * | * | * | | | |
| | 100 | * | * | * | | | |
| | 125 | * | * | * | | | |
| | 160 | * | * | * | | | |
| | 200 | * | * | * | | | |
| | 250 | * | * | * | | | |

Note:

* For detail information, contact us please!

# 690V (IEC) / 700V (UL)

| Catalog Numbers | Current Rating (A) | Pre-arcing $10^3\times I^2t$ ($A^2s$) | $10^3\times I^2t$ ($A^2s$, 700V) | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-A | 280 | * | * | * | 690V(IEC) 700V(UL) | 200KA | gR/aR |
| | 315 | * | * | * | | | |
| | 350 | * | * | * | | | |
| | 400 | * | * | * | | | |
| | 450 | * | * | * | | | aR |
| | 500 | * | * | * | | | |
| | 550 | * | * | * | | | |
| | 630 | * | * | * | | | |
| VSP-B | 200 | * | * | * | | | aR |
| | 250 | * | * | * | | | |
| | 315 | * | * | * | | | |
| | 350 | * | * | * | | | |
| | 400 | * | * | * | | | gR/aR |
| | 450 | * | * | * | | | |
| | 500 | * | * | * | | | |
| | 550 | * | * | * | | | |
| | 630 | * | * | * | | | |
| | 700 | * | * | * | | | |
| | 800 | * | * | * | | | |
| | 900 | * | * | * | | | |
| VSP-C | 400 | * | * | * | | | aR |
| | 450 | * | * | * | | | |
| | 500 | * | * | * | | | |
| | 550 | * | * | * | | | |
| | 630 | * | * | * | | | |
| | 700 | * | * | * | | | |
| | 800 | * | * | * | | | |
| | 900 | * | * | * | | | gR/aR |
| | 1000 | * | * | * | | | |
| | 1100 | * | * | * | | | |
| | 1250 | * | * | * | | | |
| VSP-E | 500 | * | * | * | | | aR |
| | 550 | * | * | * | | | |
| | 630 | * | * | * | | | |
| | 700 | * | * | * | | | |
| | 800 | * | * | * | | | |
| | 900 | * | * | * | | | |

Note:
* For detail information, contact us please!

# 690V (IEC) / 700V (UL)

| Catalog Numbers | Current Rating (A) | Pre-arcing $10^3\times I^2t$ ($A^2s$) | $10^3\times I^2t$ ($A^2s$, 700V) | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-E | 1000 | * | * | * | 690V(IEC)<br>700V(UL) | 200KA | aR |
| | 1100 | * | * | * | | | |
| | 1250 | * | * | * | | | gR/aR |
| | 1400 | * | * | * | | | |
| | 1500 | * | * | * | | | |
| | 1600 | * | * | * | | | |
| | 1800 | * | * | * | | | |
| | 2000 | * | * | * | | | |
| VSP-G | 2000 | * | * | * | | | aR |
| | 2200 | * | * | * | | | |
| | 2300 | * | * | * | | | |
| | 2500 | * | * | * | | | |
| | 2800 | * | * | * | | | |
| VSP-H | 1000 | * | * | * | | | aR |
| | 1250 | * | * | * | | | |
| | 1400 | * | * | * | | | |
| | 1600 | * | * | * | | | |
| | 2000 | * | * | * | | | |
| | 2500 | * | * | * | | | |
| | 3000 | * | * | * | | | |
| | 3500 | * | * | * | | | |
| | 4000 | * | * | * | | | |
| 2×VSP-E | 1000 | * | * | * | 660V | | aR |
| | 1100 | * | * | * | | | |
| | 1250 | * | * | * | | | |
| | 1400 | * | * | * | | | |
| | 1500 | * | * | * | | | |
| | 1600 | * | * | * | | | |
| | 1800 | * | * | * | | | |
| | 2000 | * | * | * | | | |
| | 2200 | * | * | * | | | |
| | 2500 | * | * | * | | | |
| | 3000 | * | * | * | | | |
| | 3500 | * | * | * | 600V | | |
| | 4000 | * | * | * | 550V | | |
| 2×VSP-H | 2000 | * | * | * | 690V | | aR |
| | 2500 | * | * | * | | | |

Note:
* For detail information, contact us please!

# 690V (IEC) / 700V (UL)

| Catalog Numbers | Current Rating (A) | Pre-arcing $10^3\times I^2t$ ($A^2s$) | $10^3\times I^2t$ ($A^2s$, 700V) | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-H | 3000 | * | * | * | 690V | 200KA | aR |
| | 3500 | * | * | * | | | |
| | 4000 | * | * | * | | | |
| | 4500 | * | * | * | | | |
| | 5000 | * | * | * | | | |
| | 5500 | * | * | * | | | |
| | 6000 | * | * | * | | | |
| | 6500 | * | * | * | | | |
| | 7000 | * | * | * | | | |
| | 7500 | * | * | * | 500V | | |

Note:

* For detail information, contact us please!

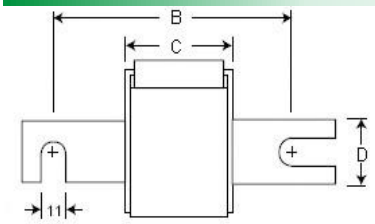
# 1000V (IEC) / 1100V (UL)

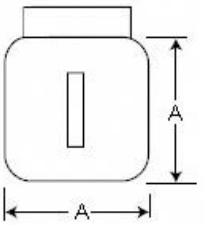
## Ratings:

Voltage Rating:
AC 1000V (IEC)
AC 1100V (UL)
Current Rating:
50A-4000A
Interrupt Rating:
200KA

## Mechanical Dimensions:

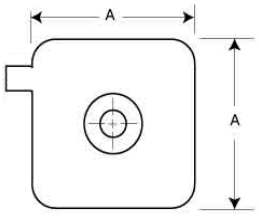
### Terminal D11

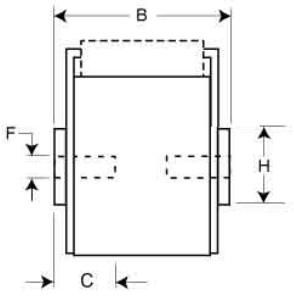


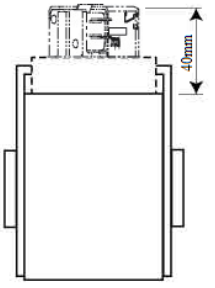




| Size | Current Rating (A) | Mechanical Dimensions (mm) | | | |
|---|---|---|---|---|---|
| | | A | B | C | D |
| A | 50-400 | 45 | 108 | 80 | 22 |
| B | 160-630 | 51 | 108 | 80 | 25 |
| C | 250-800 | 60 | 108 | 80 | 25 |
| E | 350-1400 | 75 | 108 | 81 | 32 |

### Terminal FS



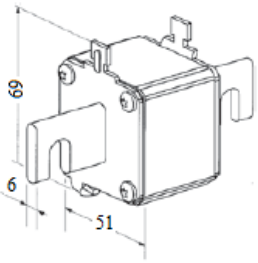



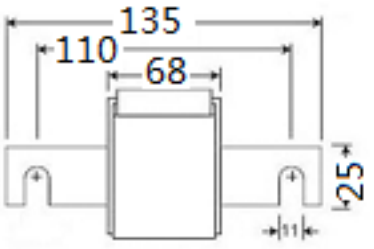




| Size | Current Rating (A) | Mechanical Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | | A | B | C | H | F |
| A | 50-400 | 45 | 74 | 5 | Φ17.5 | M8 |
| B | 160-630 | 53 | 74 | 8 | Φ20.0 | M8 |
| C | 250-800 | 60 | 74 | 10 | Φ24.0 | M10 |
| E | 350-1400 | 75 | 75 | 10 | Φ30.0 | M12 |
| G | 900-2800 | 85 | 78 | 12 | Φ35.0 | M12 |
| H | 1000-2700 | 105 | 80 | 12 | Φ40.0 | M16 |
| I | 3000-4000 | 118 | 80 | 16 | Φ45.0 | M16 |

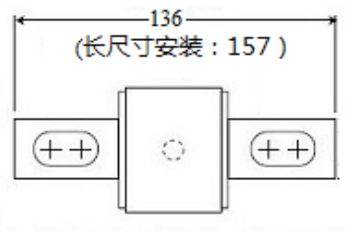
# 1000V (IEC) / 1100V (UL)

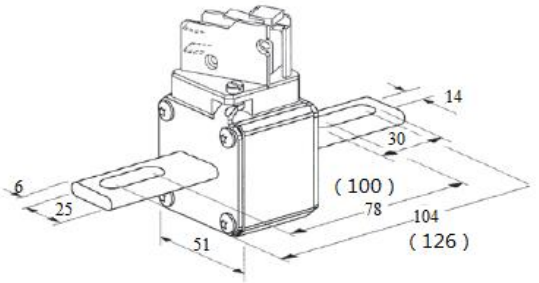
## Terminal FB




## Terminal AB




## Electrical Specifications:

| Catalog Numbers | Current Rating (A) | Pre-arcing $10^3\times I^2t$ ($A^2s$) | $10^3\times I^2t$ ($A^2s$, 1100V) | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-A | 50 | * | * | * | 1000V(IEC) 1100V(UL) | 200KA | aR |
| | 63 | * | * | * | | | |
| | 80 | * | * | * | | | |
| | 100 | * | * | * | | | |
| | 125 | * | * | * | | | |
| | 160 | * | * | * | | | |
| | 200 | * | * | * | | | |
| | 250 | * | * | * | | | |
| | 315 | * | * | * | | | |
| | 350 | * | * | * | | | |
| | 400 | * | * | * | | | |
| VSP-B | 160 | * | * | * | | | |
| | 200 | * | * | * | | | |
| | 250 | * | * | * | | | |
| | 315 | * | * | * | | | |

Note:
* For detail information, contact us please!

# 1000V (IEC) / 1100V (UL)

| Catalog Numbers | Current Rating (A) | Pre-arcing $10^3\times I^2t$ ($A^2s$) | $10^3\times I^2t$ ($A^2s$, 1100V) | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-B | 350 | * | * | * | 1000V(IEC)<br>1100V(UL) | 200KA | aR |
| | 400 | * | * | * | | | |
| | 450 | * | * | * | | | |
| | 500 | * | * | * | | | |
| | 550 | * | * | * | | | |
| | 630 | * | * | * | | | |
| VSP-C | 250 | * | * | * | | | |
| | 315 | * | * | * | | | |
| | 350 | * | * | * | | | |
| | 400 | * | * | * | | | |
| | 450 | * | * | * | | | |
| | 500 | * | * | * | | | |
| | 550 | * | * | * | | | |
| | 630 | * | * | * | | | |
| | 800 | * | * | * | | | |
| VSP-E | 350 | * | * | * | | | |
| | 400 | * | * | * | | | |
| | 450 | * | * | * | | | |
| | 500 | * | * | * | | | |
| | 550 | * | * | * | | | |
| | 630 | * | * | * | | | |
| | 800 | * | * | * | | | |
| | 900 | * | * | * | | | |
| | 1000 | * | * | * | | | |
| | 1100 | * | * | * | | | |
| | 1250 | * | * | * | | | |
| | 1400 | * | * | * | | | |
| VSP-G | 900 | * | * | * | | | |
| | 1000 | * | * | * | | | |
| | 1100 | * | * | * | | | |
| | 1250 | * | * | * | | | |
| | 1400 | * | * | * | | | |
| | 1500 | * | * | * | | | |
| | 1600 | * | * | * | | | |
| | 1800 | * | * | * | | | |
| | 2000 | * | * | * | | | |
| | **2200** | * | * | * | | | |

Note:
* For detail information, contact us please!

# 1000V (IEC) / 1100V (UL)

| Catalog Numbers | Current Rating (A) | **Pre-arcing $10^3\times I^2t$ ($A^2s$)** | **$10^3\times I^2t$ ($A^2s$, 1100V)** | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-G | 2300 | * | * | * | 1000V(IEC)<br>1100V(UL) | 200KA | aR |
| | 2500 | * | * | * | | | |
| | 2800 | * | * | * | | | |
| VSP-H | 1000 | * | * | * | | | |
| | 1100 | * | * | * | | | |
| | 1500 | * | * | * | | | |
| | 1700 | * | * | * | | | |
| | 2000 | * | * | * | | | |
| | 2200 | * | * | * | | | |
| | 2500 | * | * | * | | | |
| | 2700 | * | * | * | | | |
| VSP-I | 3000 | * | * | * | | | |
| | 3600 | * | * | * | | | |
| | 4000 | * | * | * | | | |

Note:
* For detail information, contact us please!

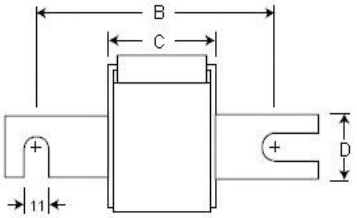
# 1250V (IEC) / 1300V (UL)

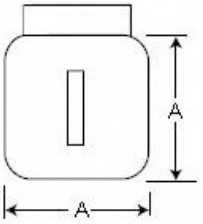
## Ratings:

Voltage Rating:
AC 1250V (IEC)
AC 1300V (UL)
Current Rating:
50A-4000A
Interrupt Rating:
100KA

## Mechanical Dimensions:

### Terminal D11

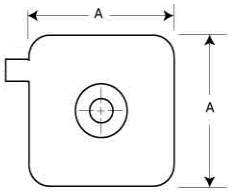


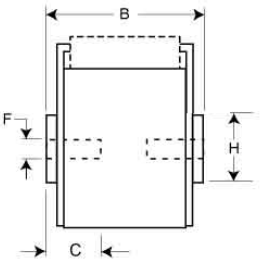



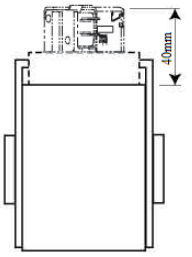

| Size | Current Rating (A) | Mechanical Dimensions (mm) | | | |
|---|---|---|---|---|---|
| | | A | B | C | D |
| A | 50-400 | 45 | 110 | 65 | 25 |
| B | 160-630 | 53 | 110 | 65 | 25 |
| C | 250-1000 | 60 | 110 | 65 | 25 |
| E | 315-1500 | 75 | 110 | 65 | 30 |

### Terminal D08 (See NT1/NT2/NT3)

### Terminal FS



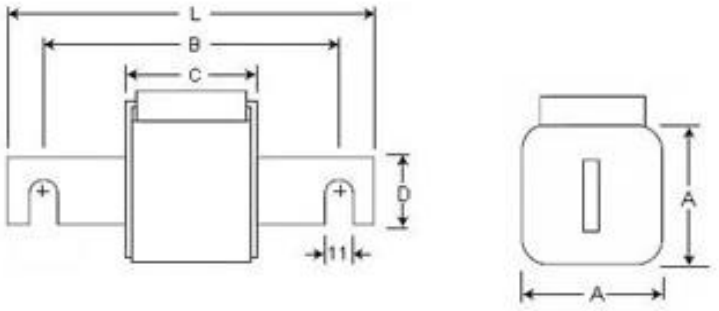

| Size | Current Rating (A) | Mechanical Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | | A | B | C | H | F |
| A | 50-400 | 45 | 74/80 | 5 | Φ17.0 | M8 |
| B | 160-630 | 53 | 74/81 | 8 | Φ20.0 | M8 |
| C | 250-1000 | 61 | 74/81/91 | 10 | Φ24.0 | M10 |
| E | 315-1500 | 75 | 75/83/91 | 10 | Φ30.0 | M12 |
| G | 1500-2200 | 85 | 78 | 12 | Φ35.0 | M12 |
| H | 1400-2800 | 105 | 80 | 12 | Φ56.0 | M16 |
| I | 2800-4000 | 118 | 80 | 16 | Φ60.0 | M16 |

## Note:

Multi type of length is optional for Installation dimension B of fuse with size A, B, C and E, and dimension B should be indicated while ordering (eg. VSP-83E 500A1300V D11).

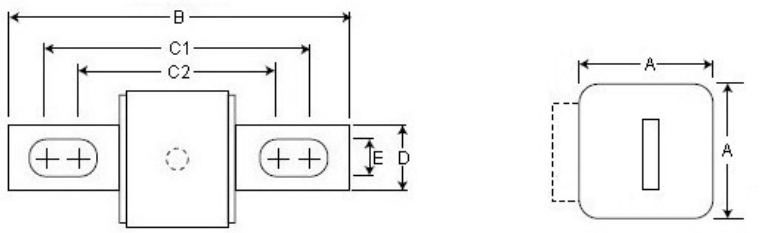
# 1250V (IEC) / 1300V (UL)

## Terminal FB




| Size | Current Rating (A) | Mechanical Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | | A | B | C | D | L |
| A | 50-400 | 45 | 76 | 50 | 18 | 102 |
| B | 160-630 | 53 | 86 | 50 | 25 | 111 |
| C | 250-1000 | 61 | 91 | 50 | 30 | 126 |
| E | 315-1500 | 75 | 91 | 51 | 36 | 126 |

## Terminal AB




| Size | Current Rating (A) | Mechanical Dimensions (mm) | | | | | |
|---|---|---|---|---|---|---|---|
| | | A | B | Type LL Contact | | D | E |
| | | | | C1 | C2 | | |
| A | 50-400 | 45 | 156 | 130 | 101 | 20 | 10 |
| B | 160-630 | 53 | 160 | 127 | 102 | 25 | 14 |
| C | 250-1000 | 61 | 160 | 127 | 102 | 25 | 14 |
| E | 315-1500 | 75 | 160 | 128 | 101 | 36 | 16 |

## Electrical Specifications:

| Catalog Numbers | Current Rating (A) | Pre-arcing $10^3\times I^2t$ ($A^2s$) | $10^3\times I^2t$ ($A^2s$, 1300V) | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-A | 50 | * | * | * | 1250V (IEC) 1300V (UL) | 100KA | aR |
| | 63 | * | * | * | | | |
| | 80 | * | * | * | | | |
| | 100 | * | * | * | | | |

Note:
* For detail information, contact us please!

# 1250V (IEC) / 1300V (UL)

| Catalog Numbers | Current Rating (A) | Pre-arcing $10^3\times I^2t$ ($A^2s$) | $10^3\times I^2t$ ($A^2s$, 1300V) | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-A | 125 | * | * | * | 1250V (IEC)<br>1300V (UL) | 100KA | aR |
| | 160 | * | * | * | | | |
| | 200 | * | * | * | | | |
| | 250 | * | * | * | | | |
| | 315 | * | * | * | | | |
| | 350 | * | * | * | | | |
| | 400 | * | * | * | | | |
| VSP-B | 160 | * | * | * | | | |
| | 200 | * | * | * | | | |
| | 250 | * | * | * | | | |
| | 315 | * | * | * | | | |
| | 350 | * | * | * | | | |
| | 400 | * | * | * | | | |
| | 450 | * | * | * | | | |
| | 500 | * | * | * | | | |
| | 550 | * | * | * | | | |
| | 630 | * | * | * | | | |
| VSP-C | 250 | * | * | * | | | |
| | 280 | * | * | * | | | |
| | 315 | * | * | * | | | |
| | 350 | * | * | * | | | |
| | 400 | * | * | * | | | |
| | 450 | * | * | * | | | |
| | 500 | * | * | * | | | |
| | 550 | * | * | * | | | |
| | 630 | * | * | * | | | |
| | 700 | * | * | * | | | |
| | 800 | * | * | * | | | |
| | 900 | * | * | * | | | |
| | 1000 | * | * | * | | | |
| VSP-E | 315 | * | * | * | | | |
| | 350 | * | * | * | | | |
| | 400 | * | * | * | | | |
| | 450 | * | * | * | | | |
| | 500 | * | * | * | | | |
| | 550 | * | * | * | | | |
| | 630 | * | * | * | | | |

Note:
* For detail information, contact us please!

# 1250V (IEC) / 1300V (UL)

| Catalog Numbers | Current Rating (A) | Pre-arcing $10^3\times I^2t$ ($A^2s$) | $10^3\times I^2t$ ($A^2s$, 1300V) | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-E | 700 | * | * | * | 1250V (IEC)<br>1300V (UL) | 100KA | aR |
| | 800 | * | * | * | | | |
| | 900 | * | * | * | | | |
| | 1000 | * | * | * | | | |
| | 1100 | * | * | * | | | |
| | 1250 | * | * | * | | | |
| | 1400 | * | * | * | | | |
| | 1500 | * | * | * | | | |
| VSP-G | 1500 | * | * | * | | | |
| | 1600 | * | * | * | | | |
| | 1800 | * | * | * | | | |
| | 2000 | * | * | * | | | |
| | 2200 | * | * | * | | | |
| VSP-H | 1400 | * | * | * | | | |
| | 1500 | * | * | * | | | |
| | 1700 | * | * | * | | | |
| | 1800 | * | * | * | | | |
| | 2000 | * | * | * | | | |
| | 2200 | * | * | * | | | |
| | 2400 | * | * | * | | | |
| | 2500 | * | * | * | | | |
| | 2800 | * | * | * | | | |
| VSP-I | 2800 | * | * | * | | | |
| | 3000 | * | * | * | | | |
| | 3200 | * | * | * | | | |
| | 3600 | * | * | * | | | |
| | 4000 | * | * | * | | | |

Note:
* For detail information, contact us please!

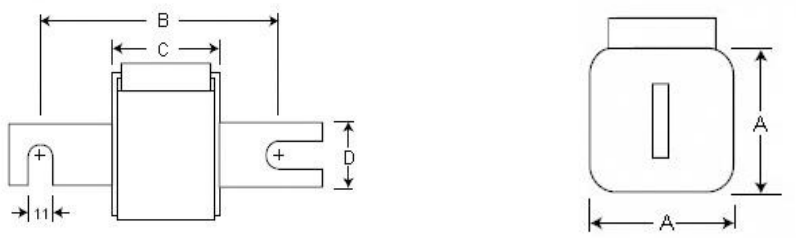
# 1500V

## Ratings:

Voltage Rating:
AC 1500V
Current Rating:
100A-2500A
Interrupt Rating:
100KA

## Mechanical Dimensions:

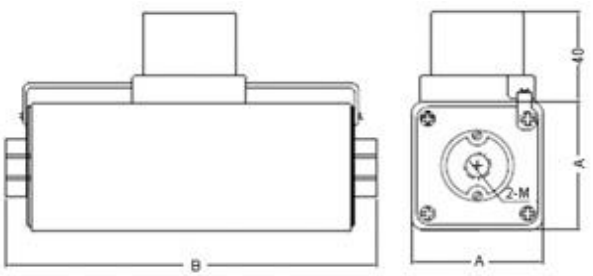
### Terminal D11




| Size | Current Rating (A) | Mechanical Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | | A | Type LL Contact B | Type L Contact B | C | D |
| B | 100-350 | 53 | 162 | 140 | 117 | 25 |
| E | 250-750 | 75 | 162 | 140 | 117 | 30 |

Note:
Type LL contact and Type L contact is optional for Installation dimension B, and Type L contact should be indicated while ordering (eg. VSP-LE 500A1500V D11).

### Terminal FS




| Size | Current Rating (A) | Mechanical Dimensions (mm) | | |
|---|---|---|---|---|
| | | A | B | M |
| B | 100-350 | 51 | 128 | M8 |
| E | 250-750 | 75 | 96/108/130 | M12 |
| G | 800-1600 | 85 | 130 | M12 |
| I | 1600-2500 | 75 | 100/132 | M12 |

# 1500V

## Electrical Specifications:

| Catalog Numbers | Current Rating (A) | Pre-arcing $10^3\times I^2t$ ($A^2s$) | $10^3\times I^2t$ ($A^2s$, 1500V) | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-B | 100 | * | * | * | 1500 V | 100 kA | aR |
| | 125 | * | * | * | | | |
| | 160 | * | * | * | | | |
| | 180 | * | * | * | | | |
| | 200 | * | * | * | | | |
| | 250 | * | * | * | | | |
| | 315 | * | * | * | | | |
| | 350 | * | * | * | | | |
| VSP-E | 250 | * | * | * | | | |
| | 315 | * | * | * | | | |
| | 350 | * | * | * | | | |
| | 375 | * | * | * | | | |
| | 400 | * | * | * | | | |
| | 450 | * | * | * | | | |
| | 500 | * | * | * | | | |
| | 550 | * | * | * | | | |
| | 630 | * | * | * | | | |
| | 700 | * | * | * | | | |
| | 750 | * | * | * | | | |
| VSP-G | 800 | * | * | * | | | |
| | 900 | * | * | * | | | |
| | 1000 | * | * | * | | | |
| | 1100 | * | * | * | | | |
| | 1250 | * | * | * | | | |
| | 1400 | * | * | * | | | |
| | 1500 | * | * | * | | | |
| | 1600 | * | * | * | | | |
| VSP-I | 1600 | * | * | * | | | |
| | 1800 | * | * | * | | | |
| | 2000 | * | * | * | | | |
| | 2200 | * | * | * | | | |
| | 2300 | * | * | * | | | |
| | 2500 | * | * | * | | | |

Note:
* For detail information, contact us please!

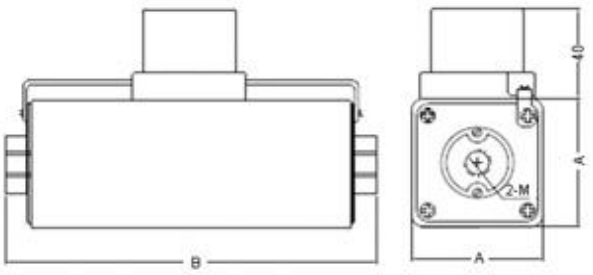
# 2000V

## Ratings:

Voltage Rating:
AC 2000V
Current Rating:
100A-2500A
Interrupt Rating:
100KA

## Mechanical Dimensions:

Terminal FS




| Size | Current Rating (A) | Mechanical Dimensions (mm) | | |
|---|---|---|---|---|
| | | A | B | M |
| B | 100-350 | 51 | 128 | M8 |
| E | 250-800 | 75 | 130/148 | M12 |
| G | 800-1400 | 85 | 130 | M12 |
| I | 1500-2500 | 118 | 132 | M16 |

Note:
Multi type of length is optional for Installation dimension B of fuse with size E, and dimension B should be indicated while ordering (eg. VSP-130E 500A2000V D11).

## Electrical Specifications:

| Catalog Numbers | Current Rating (A) | Pre-arcing $10^3\times I^2t$ ($A^2s$) | $10^3\times I^2t$ ($A^2s$, 2000V) | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-B | 100 | * | * | * | 2000 V | 100 kA | aR |
| | 125 | * | * | * | | | |
| | 160 | * | * | * | | | |
| | 200 | * | * | * | | | |
| | 250 | * | * | * | | | |
| | 315 | * | * | * | | | |
| | 350 | * | * | * | | | |
| VSP-E | 250 | * | * | * | | | |
| | 315 | * | * | * | | | |
| | 350 | * | * | * | | | |

Note:
* For detail information, contact us please!

# 2000V

| Catalog Numbers | Current Rating (A) | **Pre-arcing $10^3\times I^2t$ ($A^2s$)** | **$10^3\times I^2t$ ($A^2s$, 2000V)** | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-E | 375 | * | * | * | 2000 V | 100 kA | aR |
| | 400 | * | * | * | | | |
| | 450 | * | * | * | | | |
| | 500 | * | * | * | | | |
| | 550 | * | * | * | | | |
| | 630 | * | * | * | | | |
| | 700 | * | * | * | | | |
| | 750 | * | * | * | | | |
| | 800 | * | * | * | | | |
| VSP-H | 800 | * | * | * | | | |
| | 900 | * | * | * | | | |
| | 1000 | * | * | * | | | |
| | 1100 | * | * | * | | | |
| | 1250 | * | * | * | | | |
| | 1400 | * | * | * | | | |
| VSP-I | 1500 | * | * | * | | | |
| | 1600 | * | * | * | | | |
| | 1800 | * | * | * | | | |
| | 2000 | * | * | * | | | |
| | 2200 | * | * | * | | | |
| | 2300 | * | * | * | | | |
| | 2500 | * | * | * | | | |

Note:
* For detail information, contact us please!

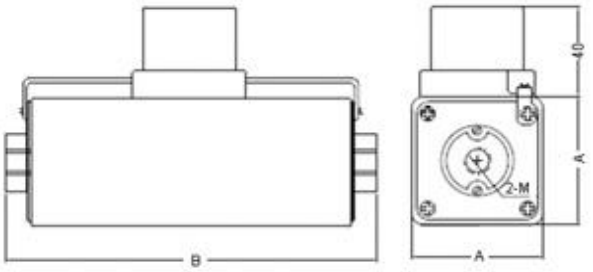
# 2500V

## Ratings:

Voltage Rating:
AC 2500V
Current Rating:
100A-2500A
Interrupt Rating:
100KA

## Mechanical Dimensions:

Terminal FS




| Size | Current Rating (A) | Mechanical Dimensions (mm) | | |
|---|---|---|---|---|
| | | A | B | M |
| B | 100-350 | 51 | 128 | M8 |
| E | 250-800 | 75 | 130/148 | M12 |
| G | 800-1400 | 85 | 130 | M12 |
| I | 1500-2500 | 118 | 132 | M16 |

Note:
Two type of length is optional for Installation dimension B of fuse with size E, and dimension B should be indicated while ordering (eg. VSP-130E 500A2500V D11).

## Electrical Specifications:

| Catalog Numbers | Current Rating (A) | Pre-arcing $10^3\times I^2t$ ($A^2s$) | $10^3\times I^2t$ ($A^2s$, 2500V) | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-B | 100 | * | * | * | 2500 V | 100 kA | aR |
| | 125 | * | * | * | | | |
| | 160 | * | * | * | | | |
| | 200 | * | * | * | | | |
| | 250 | * | * | * | | | |
| | 315 | * | * | * | | | |
| | 350 | * | * | * | | | |
| VSP-E | 250 | * | * | * | | | |
| | 315 | * | * | * | | | |
| | 350 | * | * | * | | | |

Note:
* For detail information, contact us please!

# 2500V

| Catalog Numbers | Current Rating (A) | Pre-arcing $10^3\times I^2t$ ($A^2s$, 2500V) | $10^3\times I^2t$ ($A^2s$, 2500V) | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-E | 375 | * | * | * | 2500 V | 100 kA | aR |
| | 400 | * | * | * | | | |
| | 450 | * | * | * | | | |
| | 500 | * | * | * | | | |
| | 550 | * | * | * | | | |
| | 630 | * | * | * | | | |
| | 700 | * | * | * | | | |
| | 750 | * | * | * | | | |
| | 800 | * | * | * | | | |
| VSP-H | 800 | * | * | * | | | |
| | 900 | * | * | * | | | |
| | 1000 | * | * | * | | | |
| | 1100 | * | * | * | | | |
| | 1250 | * | * | * | | | |
| | 1400 | * | * | * | | | |
| VSP-I | 1500 | * | * | * | | | |
| | 1600 | * | * | * | | | |
| | 1800 | * | * | * | | | |
| | 2000 | * | * | * | | | |
| | 2200 | * | * | * | | | |
| | 2300 | * | * | * | | | |
| | 2500 | * | * | * | | | |

Note:
* For detail information, contact us please!

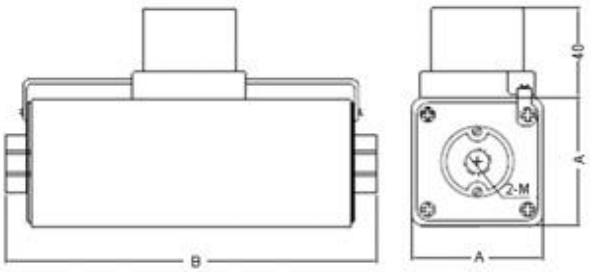
# 6000V

## Ratings:

Voltage Rating:
AC 6000V
Current Rating:
40A-800A
Interrupt Rating:
100KA

## Mechanical Dimensions:

Terminal FS




| Size | Current Rating (A) | Mechanical Dimensions (mm) | | |
|---|---|---|---|---|
| | | A | B | M |
| E | 40-800 | 75 | 188 | M12 |

## Electrical Specifications:

| Catalog Numbers | Current Rating (A) | Pre-arcing $10^3\times I^2t$ ($A^2s$) | $10^3\times I^2t$ ($A^2s$, 6000V) | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-E | 40 | * | * | * | 6000 V | 100 kA | aR |
| | 50 | * | * | * | | | |
| | 63 | * | * | * | | | |
| | 80 | * | * | * | | | |
| | 100 | * | * | * | | | |
| | 125 | * | * | * | | | |
| | 160 | * | * | * | | | |
| | 200 | * | * | * | | | |
| | 250 | * | * | * | | | |
| | 315 | * | * | * | | | |
| | 350 | * | * | * | | | |
| | 400 | * | * | * | | | |
| | 450 | * | * | * | | | |
| | 500 | * | * | * | | | |

Note:
* For detail information, contact us please!

# 6000V

| Catalog Numbers | Current Rating (A) | **Pre-arcing $10^3\times I^2t$ ($A^2s$)** | **$10^3\times I^2t$ ($A^2s$, 6000V)** | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-E | 550 | * | * | * | 6000 V | 100 kA | aR |
| | 630 | * | * | * | | | |
| | 700 | * | * | * | | | |
| | 750 | * | * | * | | | |
| | 800 | * | * | * | | | |

Note:
* For detail information, contact us please!

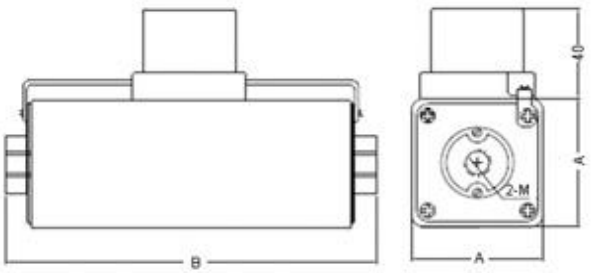
# 10000V

## Ratings:

Voltage Rating:
AC 10000V
Current Rating:
40A-800A
Interrupt Rating:
100KA

## Mechanical Dimensions:

Terminal FS




| Size | Current Rating (A) | Mechanical Dimensions (mm) | | |
|---|---|---|---|---|
| | | A | B | M |
| E | 40-800 | 75 | 223 | M12 |

## Electrical Specifications:

| Catalog Numbers | Current Rating (A) | Pre-arcing $10^3\times I^2t$ ($A^2s$) | $10^3\times I^2t$ ($A^2s$, 10000V) | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-E | 40 | * | * | * | 10000 V | 100 kA | aR |
| | 50 | * | * | * | | | |
| | 63 | * | * | * | | | |
| | 80 | * | * | * | | | |
| | 100 | * | * | * | | | |
| | 125 | * | * | * | | | |
| | 160 | * | * | * | | | |
| | 200 | * | * | * | | | |
| | 250 | * | * | * | | | |
| | 315 | * | * | * | | | |
| | 350 | * | * | * | | | |
| | 400 | * | * | * | | | |
| | 450 | * | * | * | | | |
| | 500 | * | * | * | | | |

Note:
* For detail information, contact us please!

# 10000V

| Catalog Numbers | Current Rating (A) | **Pre-arcing $10^3\times I^2t$ ($A^2s$)** | **$10^3\times I^2t$ ($A^2s$, 10000V)** | Power Loss (W) | Voltage Rating (V) | Interrupt Rating | Note |
|---|---|---|---|---|---|---|---|
| VSP-E | 550 | * | * | * | 10000 V | 100 kA | aR |
| | 630 | * | * | * | | | |
| | 700 | * | * | * | | | |
| | 750 | * | * | * | | | |
| | 800 | * | * | * | | | |

Note:
* For detail information, contact us please!

## ⚠ Caution:

1. While assembling, the closest clearance distance between two fuses should be more than 10mm, and a insulating board should be placed between them;
2. The fuse links must be changed if there are mechanical damaged;
3. The operating temperature are -5 °C to 40 °C, and the equable value of ambient air temperature should not be higher than 35 °C within 24 hour;
4. altitude: 2000 meters and below;
5. The air should be clear, and the relative humidity does not exceed 50% at a max temperature of 40 °C;
6. The rated frequency should be 45Hz to 62Hz for AC network;
7. The fuse links are installed without shaking and impact obviously.