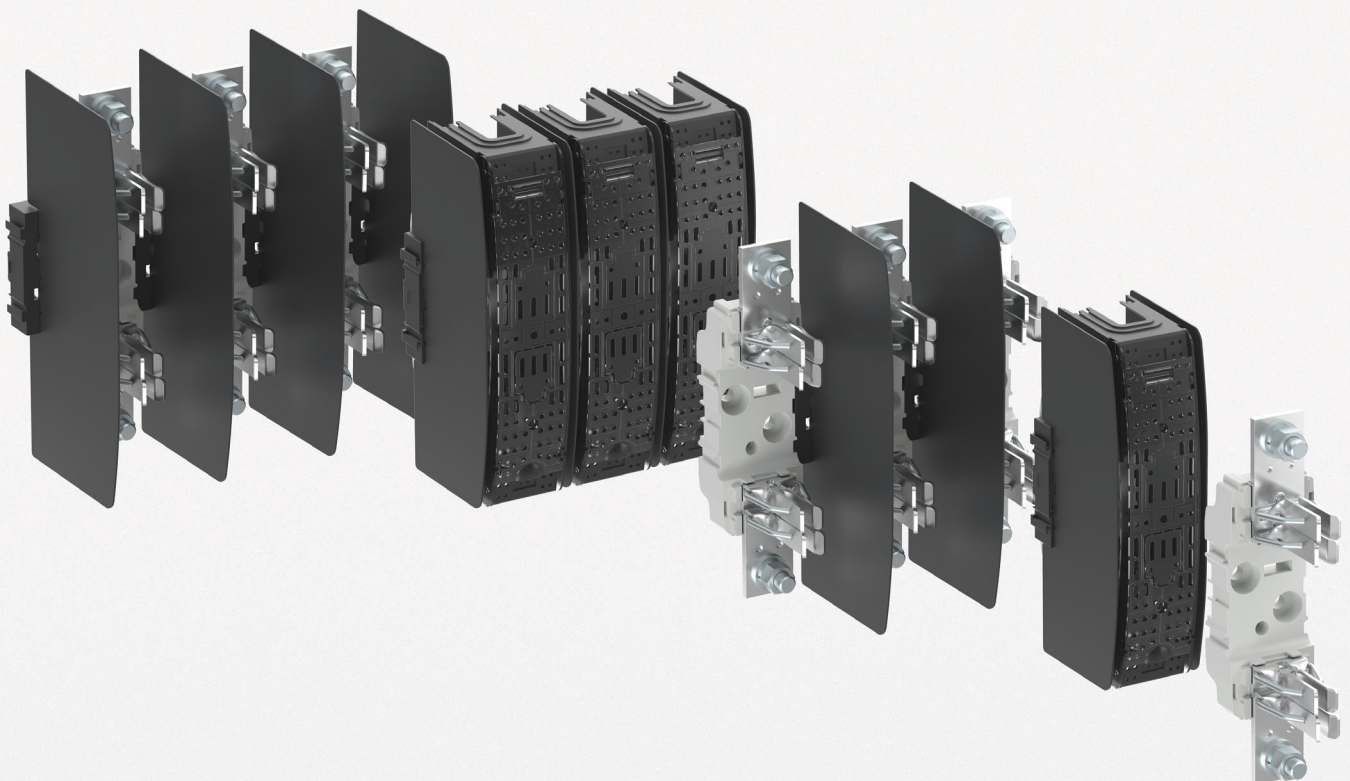


---

PROTECTION AND CONNECTION

# Baseline

## OFAZ Fuse Bases







---

# Table of contents

|           |                             |
|-----------|-----------------------------|
| <b>04</b> | <b>OFAZ fuse bases</b>      |
| <b>05</b> | <b>Part number key</b>      |
| <b>06</b> | <b>Ordering information</b> |
| <b>08</b> | <b>Accessories</b>          |
| <b>09</b> | <b>Technical data</b>       |
| <b>11</b> | <b>Dimension drawings</b>   |

# Fuse bases

## Simple and compact solution for low voltage applications

The OFAZ plastic fuse bases fulfil the highest requirements with a total safety concept. The fuse bases can be used in combination with NH fuse-links according to IEC 60269-2 and DIN VDE 0636-2 and solid links.



### Safety and protection

Fuse bases offer a compact and simple solution for application of fuses as protective elements in low voltage applications and are characterized by galvanically silver plated contacts providing reliable and high performing contact characteristics. OFAZ fuse bases are available as open types or fully protected IP20 versions.



### Easy to install

Plastic fuse bases OFAZ for NH fuses are suitable for screw mounting. A wide range of cable terminals make the installation easy and fast. Replacement is compatible to similar types in the market.



### Affordable range

Affordability has been one of the key objectives for this device. The available functionalities have been carefully selected to meet market requirements without added niche features that would elevate price. It is simple, reliable and functional.





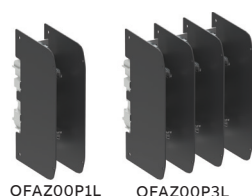
Part number key

OFAZ00P3L

|                                                                      |
|----------------------------------------------------------------------|
| <b>Fuse base, size</b>                                               |
| OFAZ = 000, 00, 0, 1, 2, 3                                           |
| <b>Protection</b>                                                    |
| <b>A</b> Open (phase barriers only between the poles)                |
| <b>P</b> Open with phase barriers                                    |
| <b>S</b> Full protection to IP 20                                    |
| <b>Number of poles</b>                                               |
| <b>1</b> 1-pole                                                      |
| <b>2</b> 2-pole                                                      |
| <b>3</b> 3-pole                                                      |
| <b>Note:</b> Contact ABB for more details on the available versions. |

## Ordering information

### Fuse bases OFAZ



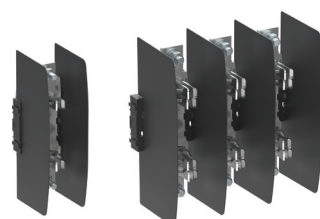
OFAZ00P1L

OFAZ00P3L



OFAZ00S1LA

OFAZ00S2L

OFAZ1P1;  
OFAZ2P1

OFAZ3P3

OFAZ1S1;  
OFAZ2S1

OFAZ1S3; OFAZ2S3

#### Fuse bases

Standard delivery including terminal bolt set in sizes 00...3.

| Number of poles | Terminal Width mm | Rated current In A | Type | Order code | Packing pcs | Weight kg |
|-----------------|-------------------|--------------------|------|------------|-------------|-----------|
|-----------------|-------------------|--------------------|------|------------|-------------|-----------|

#### Fuse bases for fuse size 000,00

Open with phase barriers IP 00

|   |    |     |              |                 |   |     |
|---|----|-----|--------------|-----------------|---|-----|
| 1 | 20 | 160 | OFAZ00P1L    | 1SCA151155R1001 | 3 | 0,5 |
| 1 | 20 | 160 | OFAZ00P1L-HV | 1SCA161614R1001 | 3 | 0,5 |
| 2 | 20 | 160 | OFAZ00P3L    | 1SCA151156R1001 | 1 | 0,5 |
| 2 | 20 | 160 | OFAZ00P3L-HV | 1SCA161616R1001 | 1 | 0,5 |

Full protection IP 20

|   |    |     |              |                 |   |     |
|---|----|-----|--------------|-----------------|---|-----|
| 1 | 20 | 160 | OFAZ00S1L    | 1SCA151157R1001 | 3 | 0,6 |
| 1 | 20 | 160 | OFAZ00S1L-HV | 1SCA161618R1001 | 3 | 0,6 |
| 2 | 20 | 160 | OFAZ00S2L    | 1SCA151158R1001 | 1 | 0,4 |
| 2 | 20 | 160 | OFAZ00S2L-HV | 1SCA161620R1001 | 1 | 0,4 |
| 3 | 20 | 160 | OFAZ00S3L    | 1SCA151159R1001 | 1 | 0,6 |
| 3 | 20 | 160 | OFAZ00S3L-HV | 1SCA161622R1001 | 1 | 0,6 |

#### Fuse bases for fuse size 0,1

Open with phase barriers IP 00

|   |    |     |            |                 |   |     |
|---|----|-----|------------|-----------------|---|-----|
| 1 | 35 | 250 | OFAZ1P1    | 1SCA151160R1001 | 3 | 0,1 |
| 1 | 35 | 250 | OFAZ1P1-HV | 1SCA161625R1001 | 3 | 0,1 |
| 3 | 35 | 250 | OFAZ1P3    | 1SCA151161R1001 | 1 | 0,1 |
| 3 | 35 | 250 | OFAZ1P3-HV | 1SCA161626R1001 | 1 | 0,1 |

Full protection IP 20

|   |    |     |            |                 |   |     |
|---|----|-----|------------|-----------------|---|-----|
| 1 | 35 | 250 | OFAZ1S1    | 1SCA151162R1001 | 3 | 0,2 |
| 1 | 35 | 250 | OFAZ1S1-HV | 1SCA161627R1001 | 3 | 0,2 |
| 2 | 35 | 250 | OFAZ1S2    | 1SCA151163R1001 | 1 | 0,1 |
| 2 | 35 | 250 | OFAZ1S2-HV | 1SCA161628R1001 | 1 | 0,1 |
| 3 | 35 | 250 | OFAZ1S3    | 1SCA151164R1001 | 1 | 0,2 |
| 3 | 35 | 250 | OFAZ1S3-HV | 1SCA161629R1001 | 1 | 0,2 |

#### Fuse bases for fuse size 1,2

Open with phase barriers IP 00

|   |    |     |            |                 |   |     |
|---|----|-----|------------|-----------------|---|-----|
| 1 | 35 | 400 | OFAZ2P1    | 1SCA151165R1001 | 3 | 0,2 |
| 1 | 35 | 400 | OFAZ2P1-HV | 1SCA161630R1001 | 3 | 0,2 |
| 3 | 35 | 400 | OFAZ2P3    | 1SCA151166R1001 | 1 | 0,2 |
| 3 | 35 | 400 | OFAZ2P3-HV | 1SCA161631R1001 | 1 | 0,2 |

Full protection IP 20

|   |    |     |            |                 |   |     |
|---|----|-----|------------|-----------------|---|-----|
| 1 | 35 | 400 | OFAZ2S1    | 1SCA151167R1001 | 3 | 0,2 |
| 1 | 35 | 400 | OFAZ2S1-HV | 1SCA161632R1001 | 3 | 0,2 |
| 2 | 35 | 400 | OFAZ2S2    | 1SCA151168R1001 | 1 | 0,2 |
| 2 | 35 | 400 | OFAZ2S2-HV | 1SCA161633R1001 | 1 | 0,2 |
| 3 | 35 | 400 | OFAZ2S3    | 1SCA151169R1001 | 1 | 0,2 |
| 3 | 35 | 400 | OFAZ2S3-HV | 1SCA161634R1001 | 1 | 0,2 |



OFAZ3A1



OFAZ3A3

## Fuse bases

Standard delivery including terminal bolt set in sizes 00...3.

| Number of poles | Terminal Width mm | Rated current In A | Type | Order code | Packing pcs | Weight kg |
|-----------------|-------------------|--------------------|------|------------|-------------|-----------|
|-----------------|-------------------|--------------------|------|------------|-------------|-----------|

### Fuse bases for fuse size 3

Open (phase barriers only between the poles) IP 00

|   |    |     |            |                 |   |     |
|---|----|-----|------------|-----------------|---|-----|
| 1 | 35 | 630 | OFAZ3A1    | 1SCA151170R1001 | 3 | 0,2 |
| 1 | 35 | 630 | OFAZ3A1-HV | 1SCA161635R1001 | 3 | 0,2 |
| 3 | 35 | 630 | OFAZ3A3    | 1SCA151171R1001 | 1 | 0,2 |
| 3 | 35 | 630 | OFAZ3A3-HV | 1SCA161636R1001 | 1 | 0,2 |

Open with phase barriers IP 00

|   |    |     |            |                 |   |     |
|---|----|-----|------------|-----------------|---|-----|
| 1 | 35 | 630 | OFAZ3P1    | 1SCA151172R1001 | 3 | 0,3 |
| 1 | 35 | 630 | OFAZ3P1-HV | 1SCA161659R1001 | 3 | 0,3 |
| 3 | 35 | 630 | OFAZ3P3    | 1SCA151173R1001 | 1 | 0,3 |
| 3 | 35 | 630 | OFAZ3P3-HV | 1SCA161660R1001 | 1 | 0,3 |

Full protection IP 20

|   |    |     |            |                 |   |     |
|---|----|-----|------------|-----------------|---|-----|
| 1 | 35 | 630 | OFAZ3S1    | 1SCA151174R1001 | 3 | 0,3 |
| 1 | 35 | 630 | OFAZ3S1-HV | 1SCA161661R1001 | 3 | 0,3 |
| 2 | 35 | 630 | OFAZ3S2    | 1SCA151175R1001 | 1 | 0,2 |
| 2 | 35 | 630 | OFAZ3S2-HV | 1SCA161662R1001 | 1 | 0,2 |
| 3 | 35 | 630 | OFAZ3S3    | 1SCA151177R1001 | 1 | 0,3 |
| 3 | 35 | 630 | OFAZ3S3-HV | 1SCA161663R1001 | 1 | 0,3 |

<sup>1)</sup> OFAZ00 M8x20 OFAZ1 M10x30 OFAZ2 M10x30 OFAZ3 M12x30

<sup>2)</sup> 1-pole cover<sup>1)</sup>

<sup>3)</sup> 3-pole cover



Ordering information

Accessories



Terminal Accessories

To be ordered separately.

| For fuse base sizes                                                                      | Terminal Width mm | Remarks                 | Type     | Order code      | Packing pcs |
|------------------------------------------------------------------------------------------|-------------------|-------------------------|----------|-----------------|-------------|
| Terminal sets for Al and Cu cables. Suitable only for IP00 fuse bases (OFAZ_P_, OFAZ_A_) |                   |                         |          |                 |             |
| 00_L                                                                                     | 20                | 25...120 mm² Al/Cu      | OZXB2    | 1SCA022119R7610 | 3           |
| 1,2,3                                                                                    | 35                | 70...185 mm² Al/Cu      | OZXB3    | 1SCA022136R8100 | 3           |
| 1,2,3                                                                                    | 35                | 2x(70...185) mm² Al/Cu  | OZXB4    | 1SCA022137R4760 | 3           |
| 1,2,3                                                                                    | 35                | 120...300 mm² Al/Cu     | OZXB5    | 1SCA022137R2470 | 3           |
| 3                                                                                        | 35                | 2x(120...300) mm² Al/Cu | OZXB6    | 1SCA022137R4920 | 3           |
| Terminal bolt sets                                                                       |                   |                         |          |                 |             |
| 00_L                                                                                     | 20                | M8 x 20 mm              | OZXE1/3E | 1SCA126302R1001 | 6           |
| 1,2                                                                                      | 35                | M10 x 30 mm             | OZXE2/3E | 1SCA127688R1001 | 6           |
| 1,2                                                                                      | 35                | M10 x 40 mm             | OZXE6/3E | 1SCA126311R1001 | 6           |
| 3                                                                                        | 35                | M12 x 40 mm             | OZXE3/3E | 1SCA126305R1001 | 6           |



Fuse handles

| For fuse sizes         | Type    | Order code      | Packing pcs |
|------------------------|---------|-----------------|-------------|
| 000, 00, 0, 1, 2, 3, 4 | OFAE506 | 1SCA128175R1001 | 1           |



Solid links

| Suitable for fuse bases | Rated current In | Type   | Order code      | Weight kg |
|-------------------------|------------------|--------|-----------------|-----------|
| OFAZ00                  | 160              | OFAW00 | 1SCA022003R9680 | 0.08      |
| OFAZ1                   | 250              | OFAW1  | 1SCA022003R9760 | 0.15      |
| OFAZ2                   | 400              | OFAW2  | 1SCA022003R9840 | 0.24      |
| OFAZ3                   | 800              | OFAW3  | 1SCA022003R9920 | 0.28      |

## Technical data

|                                                             | OFAZ00_                               | OFAZ1_                                | OFAZ2_                                | OFAZ3_                                |
|-------------------------------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Fuse size                                                   | NH00, NH000                           | NH0, NH1                              | NH1, NH2                              | NH2, NH3                              |
| Rated insulation voltage $U_i$                              | 1000 VAC/DC                           | 1000 VAC/DC                           | 1000 VAC/DC                           | 1000 VAC/DC                           |
| Rated operational voltage $U_e$                             | C690 VAC/DC                           | C690 VAC/DC                           | C690 VAC/DC                           | C690 VAC/DC                           |
| Rated current $I_n$                                         | 160 A                                 | 250 A                                 | 400 A                                 | 630 A                                 |
| Conv. free air thermal current with use links $I_{th}$      | 160 A                                 | 250 A                                 | 400 A                                 | 630 A                                 |
| Conv. free air thermal current with solid links $I_{th}$    | 200 A                                 | 320 A                                 | 500 A                                 | 800 A                                 |
| Rated frequency                                             | 40-60 Hz                              | 40-60 Hz                              | 40-60 Hz                              | 40-60 Hz                              |
| Max. permis. power dissipation per fuse link $P_a$          | 12 W                                  | 32 W                                  | 45 W                                  | 60 W                                  |
| Current derating factors for max. temperature <sup>1)</sup> | 35 °C                                 | 1                                     | 1                                     | 1                                     |
|                                                             | 40 °C                                 | 0,95                                  | 0,95                                  | 0,95                                  |
|                                                             | 50 °C                                 | 0,85                                  | 0,85                                  | 0,85                                  |
| Ambient temperature range $T_{amb}$                         | -25 ...+55 °C                         | -25 ...+55 °C                         | -25 ...+55 °C                         | -25 ...+55 °C                         |
| Rated operating mode                                        | Uninterrupted                         | Uninterrupted                         | Uninterrupted                         | Uninterrupted                         |
| Mounting position                                           | Vertical, horizontal                  | Vertical, horizontal                  | Vertical, horizontal                  | Vertical, horizontal                  |
| Pollution degree                                            | 3                                     | 3                                     | 3                                     | 3                                     |
| Overvoltage category                                        | III                                   | III                                   | III                                   | III                                   |
| Degree of protection                                        | IP00 without covers, IP20 with covers | IP00 without covers, IP20 with covers | IP00 without covers, IP20 with covers | IP00 without covers, IP20 with covers |
| Standards                                                   | IEC60269-2, DIN VDE 0636, DIN 43620   | IEC60269-2, DIN VDE 0636, DIN 43620   | IEC60269-2, DIN VDE 0636, DIN 43620   | IEC60269-2, DIN VDE 0636, DIN 43620   |

<sup>1)</sup> OFAZ\_ types fuse bases derating needed as follows. Please contact us for further information.

## Catalog: Fuse link

DIN-type HRC-fuse links can be used with fuse bases OFAZ00, OFAZ1, OFAZ2 and OFAZ3. For more information refer to the catalog Fusegear, code 1SCC317001C0201.



## Technical data for 1000V AC

|                                                                 |               | OFAZ00_HV            | OFAZ1_HV             | OFAZ2_HV             | OFAZ3_HV             |
|-----------------------------------------------------------------|---------------|----------------------|----------------------|----------------------|----------------------|
| For NH fuse links acc. to IEC60269-2                            |               | 00 / 000             | 0 / 1                | 1/2                  | 2/3                  |
| Rated operational voltage Ue*                                   | (V AC / V DC) | 1000                 | 1000                 | 1000                 | 1000                 |
| Rated operational current Ie                                    | (A)           | 160                  | 250                  | 400                  | 630                  |
| Rated insulation voltage Ui*                                    | (V AC / V DC) | 1000                 | 1000                 | 1000                 | 1000                 |
| Conv. free air thermal current with fuse links I <sub>th</sub>  | (A)           | 160                  | 250                  | 400                  | 630                  |
| Conv. free air thermal current with solid links I <sub>th</sub> | (A)           | 200                  | 320                  | 500                  | 800                  |
| Rated frequency                                                 | (Hz)          | 50/60                | 50/60                | 50/60                | 50/60                |
| Max. permis. power dissipation per fuse link P <sub>a</sub>     | (W)           | 12                   | 32                   | 45                   | 60                   |
| Current derating factors for max. temperature                   | 35 °C         | 1                    | 1                    | 1                    | 1                    |
|                                                                 | 40 °C         | 0,95                 | 0,95                 | 0,95                 | 0,95                 |
|                                                                 | 50 °C         | 0,85                 | 0,85                 | 0,85                 | 0,85                 |
| Ambient temperature range T <sub>amb</sub>                      | °C            | -25 ...+55           | -25 ...+55           | -25 ...+55           | -25 ...+55           |
| Rated operating mode                                            |               | Uninterrupted        | Uninterrupted        | Uninterrupted        | Uninterrupted        |
| Mounting position                                               |               | Vertical, horizontal | Vertical, horizontal | Vertical, horizontal | Vertical, horizontal |
| Pollution degree                                                |               | 3                    | 3                    | 3                    | 3                    |
| Overvoltage category                                            |               | III                  | III                  | III                  | III                  |
| Degree of protection                                            |               | IP00 without covers, | IP00 without covers, | IP00 without covers, | IP00 without covers, |
|                                                                 |               | IP20 with covers     | IP20 with covers     | IP20 with covers     | IP20 with covers     |
| Standards                                                       |               | IEC60269-2, DIN VDE  | IEC60269-2, DIN VDE  | IEC60269-2, DIN VDE  | IEC60269-2, DIN VDE  |
|                                                                 |               | 0636, DIN 43620      | 0636, DIN 43620      | 0636, DIN 43620      | 0636, DIN 43620      |

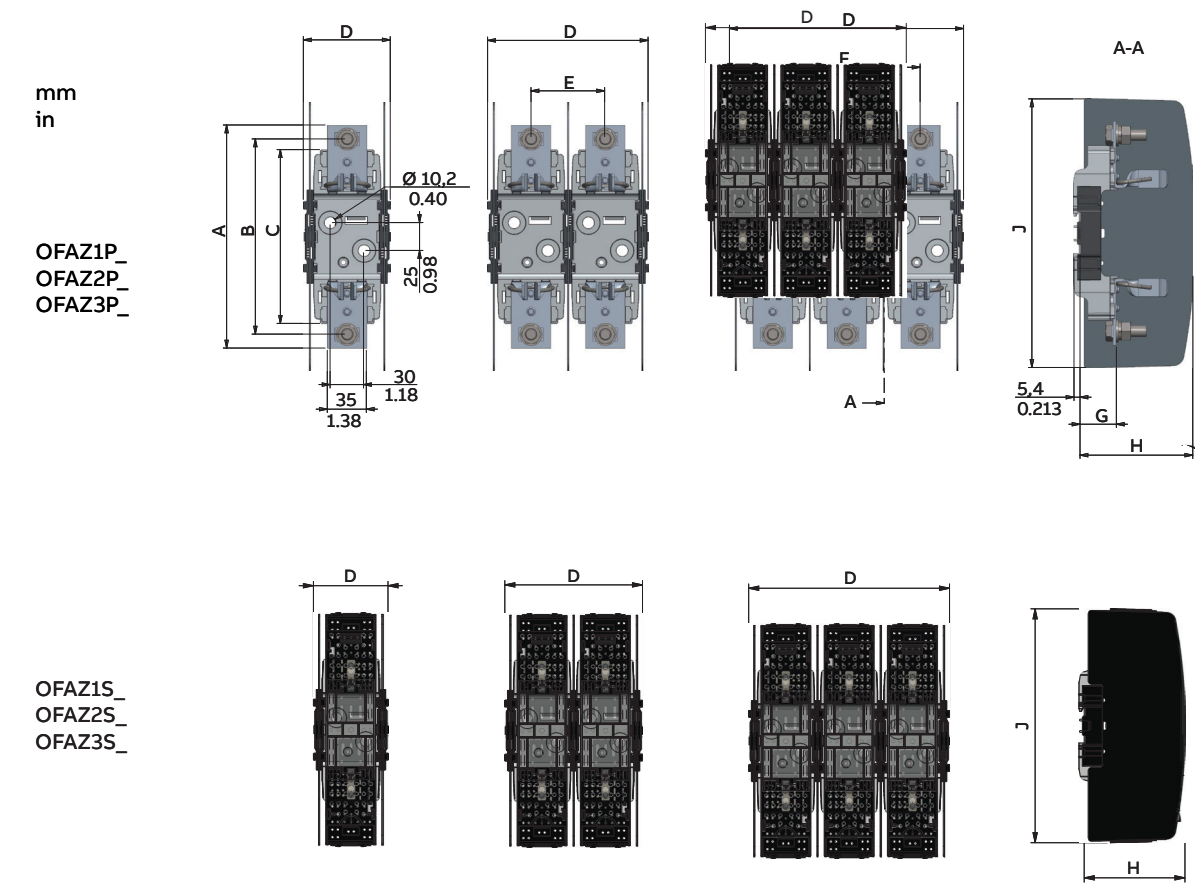
<sup>1)</sup> OFAZ\_ types fuse bases derating needed as follows, please contact us for further information.

\* According to IEC 60269-2 the designation of voltage by standard is AC and DC



Dimension drawings

Fuse bases OFAZ1/2/3\_



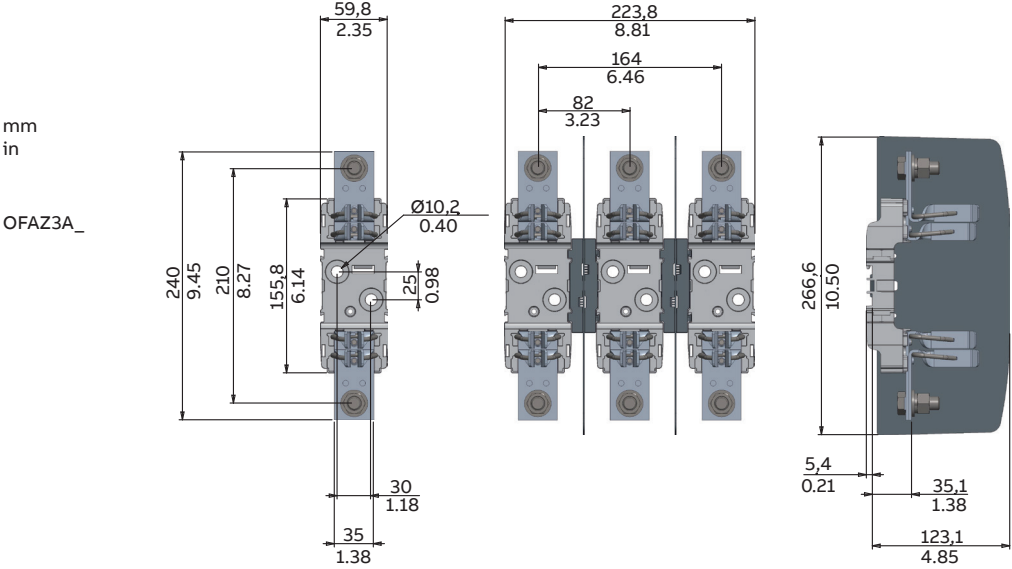
|   | OFAZ1P1/S1 |            | OFAZ1P2/S2 |            | OFAZ1P3/S3 |            | OFAZ2P1/S1  |             | OFAZ2P2/S2  |             |
|---|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
| A | 200/7,87   |            | 200/7,87   |            | 200/7,87   |            | 225/8,86    |             | 225/8,86    |             |
| B | 175/ 6,89  |            | 175/6,89   |            | 175/6,89   |            | 200/7,87    |             | 200/7,87    |             |
| C | 155,8/6,14 |            | 155,8/6,14 |            | 155,8/6,14 |            | 155,8/6,14  |             | 155,8/6,14  |             |
| D | 77,9/3,07  |            | 143,9/5,67 |            | 209,9/8,26 |            | 77,9/3,07   |             | 143,9/5,67  |             |
| E |            |            | 66/2,60    |            | 66/2,60    |            |             |             | 66/2,60     |             |
| F |            |            |            |            | 132/5,20   |            |             |             |             |             |
| G | 32,6/1,28  |            | 32,6/1,28  |            | 32,6/1,28  |            | 32,6/1,28   |             | 32,6/1,28   |             |
| H | 101,1/3,98 | 105,3/4,15 | 101,1/3,98 | 105,3/4,15 | 101,1/3,98 | 105,3/4,15 | 108,6/4,28  | 113,8/4,48  | 108,6/4,28  | 113,8/4,48  |
| J | 241/9,49   | 244,4/9,62 | 241/9,49   | 244,4/9,62 | 241/9,49   | 244,4/9,62 | 265,8/10,46 | 269,4/10,61 | 265,8/10,46 | 269,4/10,61 |

|   | OFAZ2P3/S3  |             | OFAZ3P1/S1 |             | OFAZ3P2/S2 |             | OFAZ3P3/S3  |             |
|---|-------------|-------------|------------|-------------|------------|-------------|-------------|-------------|
| A | 225/8,86    |             | 240/9,45   |             | 240/9,45   |             | 240/9,45    |             |
| B | 200/7,87    |             | 210/8,27   |             | 210/8,27   |             | 210/8,27    |             |
| C | 155,8/6,14  |             | 155,8/6,14 |             | 155,8/6,14 |             | 155,8/6,14  |             |
| D | 209,9/8,26  |             | 109,9/4,33 |             | 191,9/7,56 |             | 273,9/10,78 |             |
| E | 66/2,60     |             |            |             | 82/3,23    |             | 82/3,23     |             |
| F | 132/5,20    |             |            |             |            |             | 164/6,46    |             |
| G | 32,6/1,28   |             | 35,1/1,38  |             | 35,1/1,38  |             | 35,1/1,38   |             |
| H | 108,6/4,28  | 113,8/4,48  | 123,1/4,85 | 128,5/5,06  | 123,1/4,85 | 128,5/5,06  | 123,1/4,85  | 128,5/5,06  |
| J | 265,8/10,46 | 269,4/10,61 | 266,6/10,5 | 270,2/10,64 | 266,6/10,5 | 270,2/10,64 | 266,6/10,5  | 270,2/10,64 |



Dimension drawings

Fuse bases OFAZ3A\_



**Additional information**

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB AG does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB AG.



—  
**ABB Oy**  
Smart Power

**[www.abb.com](http://www.abb.com)**

**Find the address of your local sales  
organization on the ABB homepage:**

**[www.abb.com/contacts](http://www.abb.com/contacts)  
> Low Voltage Products and Systems**

