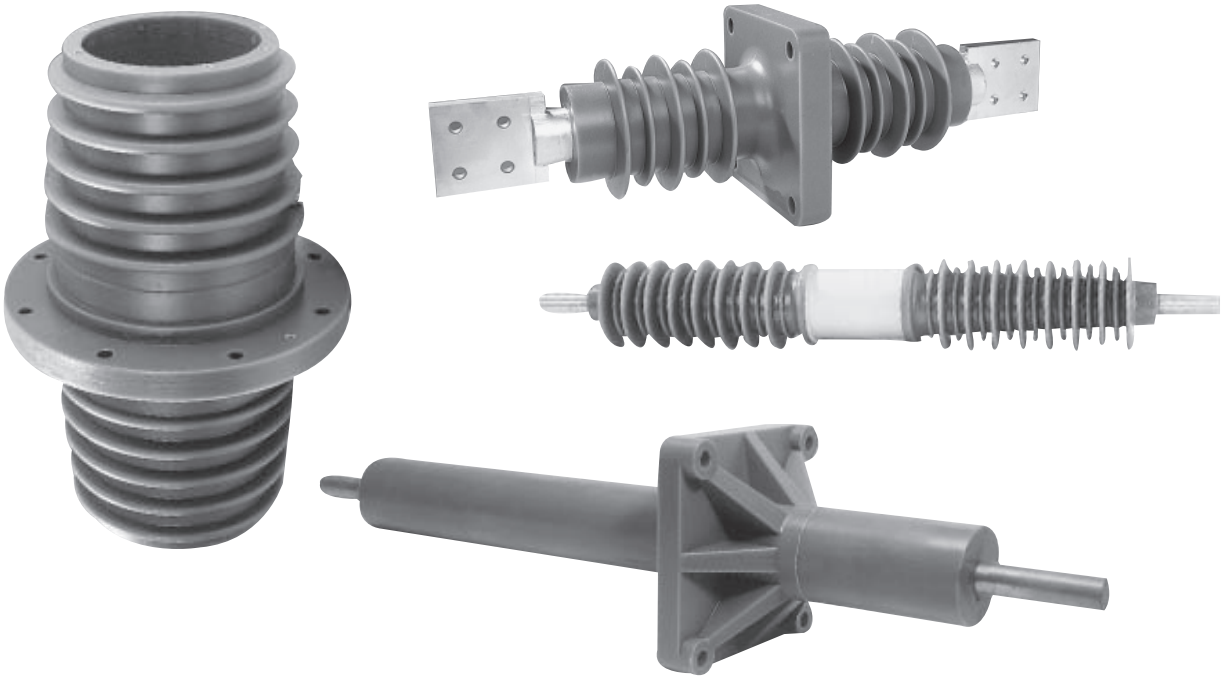
# BUSHING INSULATORS



- ***Indoor or Outdoor***
- ***Cast epoxy resin***
- ***7.2 to 36 kV.***
- ***Up to 5000 A***

## Technical data

| | |
|---|---|
| Rated insulation level | 7.2/20/60kV to 36/70/170 kV |
| Insulation class | E |
| Rated current | Up to 5000 A |
| Type | Indoor or outdoor |
| Ambient temperature | - 25°C to + 40°C |
| Connection surface treatment | depending on the current |

## Other characteristics on request

| | |
|---|---|
| Ambient temperature | - 40°C to + 70°C |

*Bushing insulators, with or without conductor for various applications in electric power generation or distribution.*

*RS ISOLSEC can design and manufacture any type of bushing insulators or insulating parts in epoxy resin you may require. Please contact us.*

*A few samples are shown on this page.*



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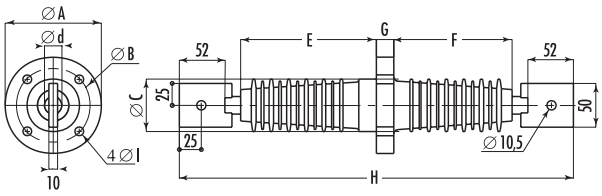
## Selection table and dimensions

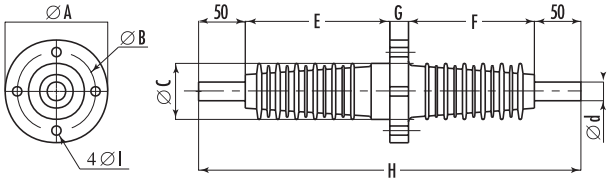
| Type | In<br>*A* | Un<br>*kV* | d<br>*mm* | A<br>*mm* | B<br>*mm* | C<br>*mm* | E<br>*mm* | F<br>*mm* | G<br>*mm* | H<br>*mm* | I<br>*mm* | Creep dist. | Weight<br>kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ISOTRA 7,2 B** | 800<br>1250 | 12 | 20<br>30 | 120 | 84<br>95 | 60<br>70 | 155 | 135 | 20 | 450 | 10 | 245 | 5<br>7 |
| **ISOTRA 24 B** | 800<br>1250 | 24 | 20<br>30 | 160 | 130 | 90 | 280 | 235 | 25 | 680 | 12 | 425 | 7<br>10 |

indoor only



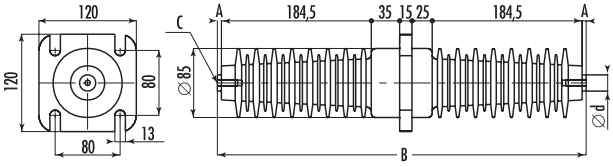

| Type | In<br>*A* | Un<br>*kV* | d<br>*mm* | A<br>*mm* | B<br>*mm* | C<br>*mm* | E<br>*mm* | F<br>*mm* | G<br>*mm* | H<br>*mm* | I<br>*mm* | Creep dist. | Weight<br>kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ISOTRA 7,2** | 800<br>1250 | 12 | 20<br>30 | 120 | 84<br>95 | 60<br>70 | 155 | 135 | 20 | 410 | 10 | 245 | 3<br>5 |
| **ISOTRA 24** | 800<br>1250 | 24 | 20<br>30 | 160 | 130 | 90 | 280 | 235 | 25 | 640 | 12 | 425 | 5<br>9 |

indoor only



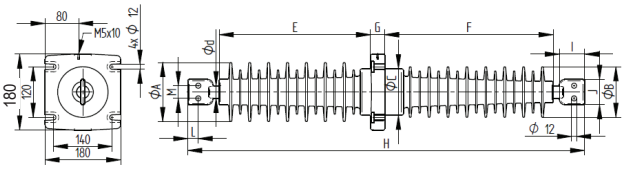

| Type | In<br>*A* | Un<br>*kV* | d<br>*mm* | A<br>*mm* | B<br>*mm* | C<br>*mm* | Creep dist. | Weight<br>kg |
|---|---|---|---|---|---|---|---|---|
| **ISOTRA 22 A** | 630 | 24 | 20 | 5 | 454 | M8 (25 useful) | 530 | 4 |
| **ISOTRA 22 B** | 630 | 24 | 20 | 40 | 524 | | 530 | 5 |

indoor only



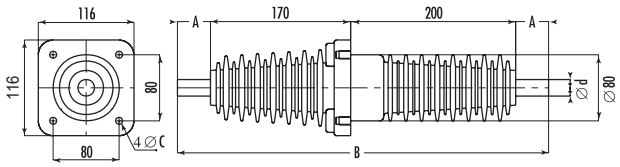

| Type | In<br>*A* | Un<br>*kV* | d<br>*mm* | A<br>*mm* | B<br>*mm* | C<br>*mm* | E<br>*mm* | F<br>*mm* | G<br>*mm* | H<br>*mm* | I<br>*mm* | Creep dist. | Weight<br>kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ISOTRA 37** | 800<br>1250 | 36 | 30<br>30 | 140 | 120 | 110 | 360 | 401 | 34 | 945 | 60 | 1040 | 14 |

indoor and outdoor



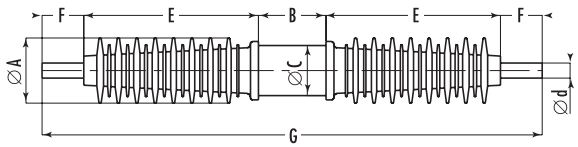

| Type | In<br>*A* | Un<br>*kV* | d<br>*mm* | A<br>*mm* | B<br>*mm* | C<br>*mm* | Creep dist. | Weight<br>kg |
|---|---|---|---|---|---|---|---|---|
| **ISOTRA 23 A** | 800 | 24 | 20 | 40 | 450 | M10 (15 useful) | 365 | 4 |
| **ISOTRA 23 B** | 1250 | 12 | 30 | 50 | 470 | M10 (15 useful) | 365 | 5 |
| **ISOTRA 23 A SDCEM** | 800 | 24 | 20 | 40 | 554 | M10 (15 useful) | 365 | 5 |

indoor only




| Type | In<br>*A* | Un<br>*kV* | d<br>*mm* | A<br>*mm* | B<br>*mm* | C<br>*mm* | E<br>*mm* | F<br>*mm* | G<br>*mm* | Creep dist. | Weight<br>kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **TIRE 7,2** | 630<br>1250 | 12 | 18<br>32 | 70<br>88 | 80 | 60 | 119 | 50<br>90 | 420<br>500 | 255 | 3<br>5 |
| **TIRE 24** | 630<br>1250 | 24 | 18<br>32 | 75<br>92 | 80 | 60 | 209 | 50<br>90 | 600<br>680 | 520 | 4<br>6 |
| **TIRE 36** | 630<br>800<br>1250<br>2000 | 36 | 20<br>25<br>32<br>40 | 118 | 100 | 110 | 369 | 70 | 980 | 650 | 18<br>19<br>20<br>21 |

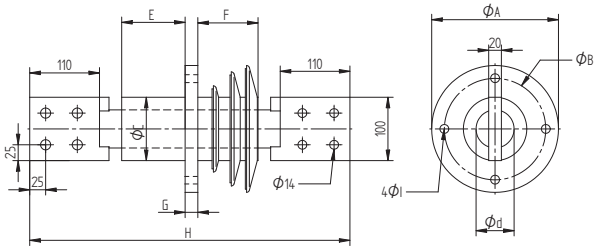
indoor only



## *BUSHING INSULATORS*

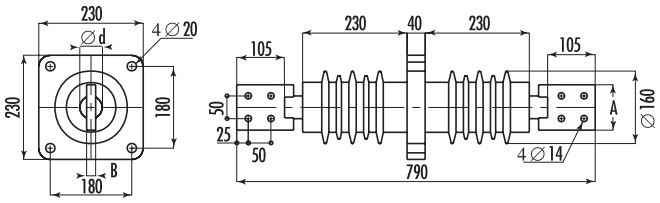
| Type | In A | Un kV | d mm | A mm | B mm | C mm | E mm | F mm | G mm | H mm | I mm | Creep dist. | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ISOTRA 1 B** | 4000 | 7.2 | 60 | 200 | 160 | 100 | 100 | 95 | 20 | 505 | 14 | 120-300 | 16 |

indoor and outdoor



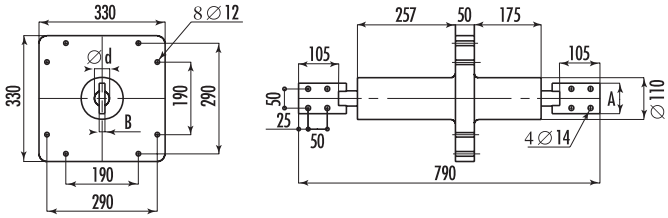

| Type | In A | Un kV | d mm | A mm | B mm | Creep dist. | Weight kg |
|---|---|---|---|---|---|---|---|
| **ISOTRA 3 B** | 1250 | 24 | 30 | 80 | 10 | 390 | 16 |
| | 2000 | | 40 | 80 | 15 | | 21 |
| | 3000 | | 50 | 100 | 20 | | 28 |
| | 4000 | | 60 | 100 | 20 | | 34 |

indoor only or outdoor 12kV



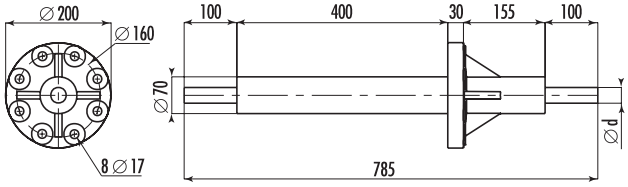

| Type | In A | Un kV | d mm | A mm | B mm | Creep dist. | Weight kg |
|---|---|---|---|---|---|---|---|
| **ISOTRA 4 B** | 1250 | 24 | 30 | 80 | 10 | 180 - 265 | 24 |
| | 2000 | | 40 | 80 | 15 | | 27 |
| | 3000 | | 50 | 100 | 20 | | 30 |
| | 4000 | | 60 | 100 | 20 | | 33 |

indoor only



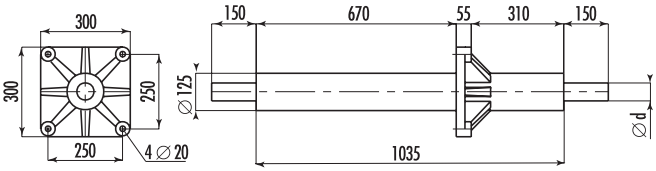

| Type | In A | Un kV | d mm | Creep dist. | Weight kg |
|---|---|---|---|---|---|
| **ISOTRA 12** | 800 | 17,5 | 20 | 165 - 400 | 8 |
| | 1250 | 17,5 | 30 | | 13 |
| | 2000 | 12 | 40 | | 18 |

indoor only



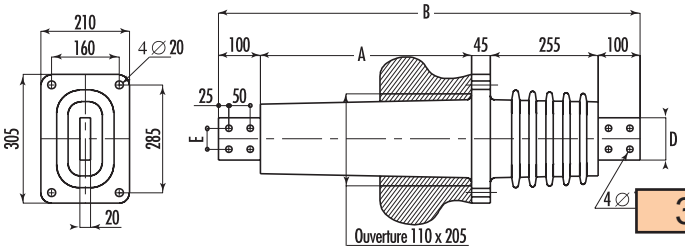

| Type | In A | Un kV | d mm | Creep dist. | Weight kg |
|---|---|---|---|---|---|
| **ISOTRA 24 EDF** | 630 | 36 | 20 | 320 - 670 | 37 |
| | 800 | 36 | 20 | | 37 |
| | 1250 | 24 | 30 | | 39 |
| | 2000 | 24 | 40 | | 50 |
| | 3000 | 24 | 50 | | 55 |
| | 4000 | 24 | 60 | | 60 |
| | 5000 | 24 | 65 | | 80 |

indoor only



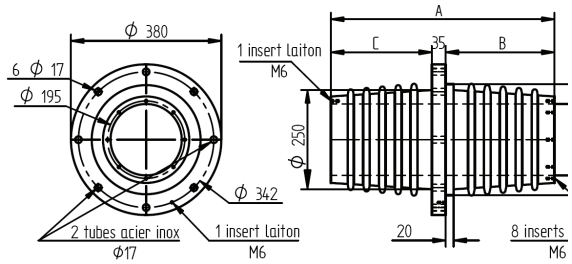

| Type | In A | Un kV | A mm | B mm | C mm | D mm | E mm | Drillings mm | Creep dist. | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|
| **TM 24 A** | 2000 | 24 | 670 | 1170 | 970 | 80 | 40 | 4 x Ø15 | 375 | 39 |
| | 2500 | | | | | 100 | 50 | 4 x Ø15 | | 43 |
| | 3000 | | | | | 125 | 70 | 5 x Ø15 | | 45 |
| **TM 24 B** | 2000 | 24 | 500 | 1000 | 800 | 80 | 40 | 4 x Ø15 | 375 | 39 |
| | 2500 | | | | | 100 | 50 | 4 x Ø15 | | 42 |
| | 3000 | | | | | 125 | 70 | 5 x Ø15 | | 46 |

indoor only




| Type | Un kV | A mm | B mm | C mm | Creep dist. | Weight kg |
|---|---|---|---|---|---|---|
| **PA 24** | 24 | 565 | 275 | 255 | 375 | 28 |
| **PA 24 VA** | 24 | 625 | 305 | 285 | 405 | 30 |
| **PA 36** | 36 | 745 | 365 | 345 | 440 | 33 |

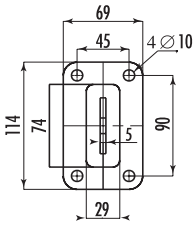
indoor only

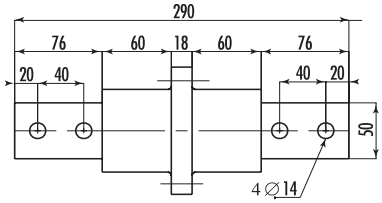


## *BUSHING INSULATORS*

| Type | In<br>*A* | Un<br>*kV* | Creep dist. | Weight kg |
|---|---|---|---|---|
| **ISOTRA 5** | 750 | 3.6 | 60 | 1 |

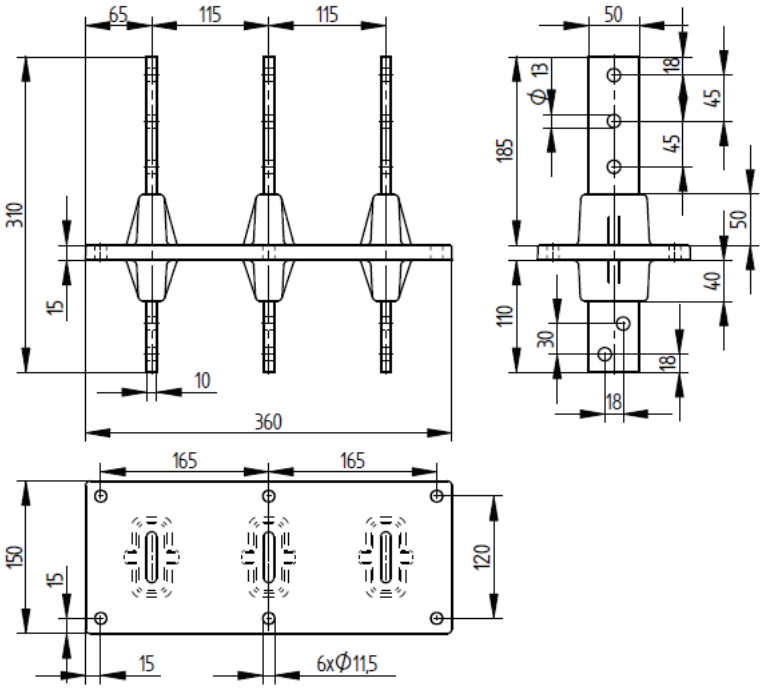
indoor only




| Type | In<br>*A* | Un<br>*kV* | Creep dist. | Weight kg |
|---|---|---|---|---|
| **ISOTRA 6T** | 2000 | 3.6 | 50 | 6 |

indoor only




## Installation

Maximum tightening torque:

- terminals M6 : 2 N.m
- terminals M8 : 13 N.m
- terminals M10 : 20 N.m
- on hole resin Ø10 : 20 N.m
- on hole resin Ø12 : 40 N.m