

# Автоматические выключатели AIR Formula FA2N/MS, FA2N

## Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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FA2N/MS 800  
4p FHR

FA2N/MS 800  
3p WMP

FA2N/MS 800  
3p FHR

FA2N/MS 800 4p  
WMP

Dimensions

|                             |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|
| Product Net Depth / Length: | 270 mm | 383 mm | 270 mm | 383 mm |
| Product Net Height:         | 371 mm | 425 mm | 371 mm | 425 mm |
| Product Net Weight:         | 45 kg  | 49 kg  | 45 kg  | 49 kg  |
| Product Net Width:          | 366 mm | 317 mm | 276 mm | 407 mm |

Container Information

|                                 |             |             |             |             |
|---------------------------------|-------------|-------------|-------------|-------------|
| Package Level 1 Depth / Length: | 615 mm      | 515 mm      | 420 mm      | 615 mm      |
| Package Level 1 EAN:            |             |             |             |             |
| Package Level 1 Gross Weight:   | 58 kg       | 53 kg       | 46 kg       | 60 kg       |
| Package Level 1 Height:         | 610 mm      | 610 mm      | 610 mm      | 610 mm      |
| Package Level 1 Units:          | box 1 piece | box 1 piece | box 1 piece | box 1 piece |
| Package Level 1 Width:          | 515 mm      | 515 mm      | 515 mm      | 515 mm      |

Additional Information

|                    |                     |                     |                     |                     |
|--------------------|---------------------|---------------------|---------------------|---------------------|
| Product Main Type: | Formula Air         | Formula Air         | Formula Air         | Formula Air         |
| Product Name:      | Switch-disconnector | Switch-disconnector | Switch-disconnector | Switch-disconnector |
| Product Type:      | Switch-disconnector | Switch-disconnector | Switch-disconnector | Switch-disconnector |
| Version:           | F                   | W                   | F                   | W                   |

Technical

|                                                                    |                                                |                                |                                                |                                |
|--------------------------------------------------------------------|------------------------------------------------|--------------------------------|------------------------------------------------|--------------------------------|
| Current Type:                                                      | AC                                             | AC                             | AC                                             | AC                             |
| Electrical Durability:                                             | 30 cycles per hour                             | 30 cycles per hour             | 30 cycles per hour                             | 30 cycles per hour             |
| Mechanical Durability:                                             | 60 cycles per hour                             | 60 cycles per hour             | 60 cycles per hour                             | 60 cycles per hour             |
| Neutral Pole Current ([%I <sub>n</sub> ]):                         | 100 %                                          | 100 %                          | 100 %                                          | 100 %                          |
| Number of Poles:                                                   | 4                                              | 3                              | 3                                              | 4                              |
| Rated Current (I <sub>n</sub> ):                                   | 800 A                                          | 800 A                          | 800 A                                          | 800 A                          |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ):               | 12 kV                                          | 12 kV                          | 12 kV                                          | 12 kV                          |
| Rated Insulation Voltage (U <sub>i</sub> ):                        | AC 1000 V                                      | AC 1000 V                      | AC 1000 V                                      | AC 1000 V                      |
| Rated Operational Voltage:                                         | 690 V AC                                       | 690 V AC                       | 690 V AC                                       | 690 V AC                       |
| Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> ): | for 1 s 50 kA<br>for 3 s 36 kA                 | for 1 s 50 kA<br>for 3 s 36 kA | for 1 s 50 kA<br>for 3 s 36 kA                 | for 1 s 50 kA<br>for 3 s 36 kA |
| Rated Uninterrupted Current (I <sub>u</sub> ):                     | 800 A                                          | 800 A                          | 800 A                                          | 800 A                          |
| Rated Voltage (U <sub>r</sub> ):                                   | 690 V                                          | 690 V                          | 690 V                                          | 690 V                          |
| Short-Circuit Performance Level:                                   | N                                              | N                              | N                                              | N                              |
| Standards:                                                         | IEC                                            | IEC                            | IEC                                            | IEC                            |
| Sub-type:                                                          | FA2                                            | FA2                            | FA2                                            | FA2                            |
| Terminal Connection Type:                                          | Fixed Circuit-Breakers<br>Rear flat Horizontal | Withdrawable Circuit-Breakers  | Fixed Circuit-Breakers<br>Rear flat Horizontal | Withdrawable Circuit-Breakers  |



## FA2N/MS 1000 4p FHR

## FA2N/MS 1000 3p WMP

## FA2N/MS 1000 3p FHR

## FA2N/MS 1000 4p WMP

### Dimensions

|                             |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|
| Product Net Depth / Length: | 270 mm | 383 mm | 270 mm | 383 mm |
| Product Net Height:         | 371 mm | 425 mm | 371 mm | 425 mm |
| Product Net Weight:         | 45 kg  | 49 kg  | 45 kg  | 49 kg  |
| Product Net Width:          | 366 mm | 317 mm | 276 mm | 407 mm |

### Container Information

|                                 |             |             |             |             |
|---------------------------------|-------------|-------------|-------------|-------------|
| Package Level 1 Depth / Length: | 615 mm      | 515 mm      | 420 mm      | 615 mm      |
| Package Level 1 EAN:            |             |             |             |             |
| Package Level 1 Gross Weight:   | 58 kg       | 53 kg       | 46 kg       | 60 kg       |
| Package Level 1 Height:         | 610 mm      | 610 mm      | 610 mm      | 610 mm      |
| Package Level 1 Units:          | box 1 piece | box 1 piece | box 1 piece | box 1 piece |
| Package Level 1 Width:          | 515 mm      | 515 mm      | 515 mm      | 515 mm      |

### Additional Information

|                    |                     |                     |                     |                     |
|--------------------|---------------------|---------------------|---------------------|---------------------|
| Product Main Type: | Formula Air         | Formula Air         | Formula Air         | Formula Air         |
| Product Name:      | Switch-disconnector | Switch-disconnector | Switch-disconnector | Switch-disconnector |
| Product Type:      | Switch-disconnector | Switch-disconnector | Switch-disconnector | Switch-disconnector |
| Version:           | F                   | W                   | F                   | W                   |

### Technical

|                                                                    |                                                |                                |                                                |                                |
|--------------------------------------------------------------------|------------------------------------------------|--------------------------------|------------------------------------------------|--------------------------------|
| Current Type:                                                      | AC                                             | AC                             | AC                                             | AC                             |
| Electrical Durability:                                             | 30 cycles per hour                             | 30 cycles per hour             | 30 cycles per hour                             | 30 cycles per hour             |
| Mechanical Durability:                                             | 60 cycles per hour                             | 60 cycles per hour             | 60 cycles per hour                             | 60 cycles per hour             |
| Neutral Pole Current ([%I <sub>N</sub> ]):                         | 100 %                                          | 100 %                          | 100 %                                          | 100 %                          |
| Number of Poles:                                                   | 4                                              | 3                              | 3                                              | 4                              |
| Rated Current (I <sub>N</sub> ):                                   | 1000 A                                         | 1000 A                         | 1000 A                                         | 1000 A                         |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ):               | 12 kV                                          | 12 kV                          | 12 kV                                          | 12 kV                          |
| Rated Insulation Voltage (U <sub>i</sub> ):                        | AC 1000 V                                      | AC 1000 V                      | AC 1000 V                                      | AC 1000 V                      |
| Rated Operational Voltage:                                         | 690 V AC                                       | 690 V AC                       | 690 V AC                                       | 690 V AC                       |
| Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> ): | for 1 s 50 kA<br>for 3 s 36 kA                 | for 1 s 50 kA<br>for 3 s 36 kA | for 1 s 50 kA<br>for 3 s 36 kA                 | for 1 s 50 kA<br>for 3 s 36 kA |
| Rated Uninterrupted Current (I <sub>u</sub> ):                     | 1000 A                                         | 1000 A                         | 1000 A                                         | 1000 A                         |
| Rated Voltage (U <sub>r</sub> ):                                   | 690 V                                          | 690 V                          | 690 V                                          | 690 V                          |
| Short-Circuit Performance Level:                                   | N                                              | N                              | N                                              | N                              |
| Standards:                                                         | IEC                                            | IEC                            | IEC                                            | IEC                            |
| Sub-type:                                                          | FA2                                            | FA2                            | FA2                                            | FA2                            |
| Terminal Connection Type:                                          | Fixed Circuit-Breakers<br>Rear flat Horizontal | Withdrawable Circuit-Breakers  | Fixed Circuit-Breakers<br>Rear flat Horizontal | Withdrawable Circuit-Breakers  |



FA2N/MS 1250  
3p FHR



FA2N/MS 1250  
4p FHR



FA2N/MS 1250  
3p WMP



FA2N/MS 1250 4p  
WMP

Dimensions

|                             |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|
| Product Net Depth / Length: | 270 mm | 270 mm | 383 mm | 383 mm |
| Product Net Height:         | 371 mm | 371 mm | 425 mm | 425 mm |
| Product Net Weight:         | 45 kg  | 45 kg  | 49 kg  | 49 kg  |
| Product Net Width:          | 276 mm | 366 mm | 317 mm | 407 mm |

Container Information

|                                 |             |             |             |             |
|---------------------------------|-------------|-------------|-------------|-------------|
| Package Level 1 Depth / Length: | 420 mm      | 615 mm      | 515 mm      | 615 mm      |
| Package Level 1 EAN:            |             |             |             |             |
| Package Level 1 Gross Weight:   | 46 kg       | 58 kg       | 53 kg       | 60 kg       |
| Package Level 1 Height:         | 610 mm      | 610 mm      | 610 mm      | 610 mm      |
| Package Level 1 Units:          | box 1 piece | box 1 piece | box 1 piece | box 1 piece |
| Package Level 1 Width:          | 515 mm      | 515 mm      | 515 mm      | 515 mm      |

Additional Information

|                    |                     |                     |                     |                     |
|--------------------|---------------------|---------------------|---------------------|---------------------|
| Product Main Type: | Formula Air         | Formula Air         | Formula Air         | Formula Air         |
| Product Name:      | Switch-disconnector | Switch-disconnector | Switch-disconnector | Switch-disconnector |
| Product Type:      | Switch-disconnector | Switch-disconnector | Switch-disconnector | Switch-disconnector |
| Version:           | F                   | F                   | W                   | W                   |

Technical

|                                                                    |                                                |                                                |                                |                                |
|--------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|--------------------------------|--------------------------------|
| Current Type:                                                      | AC                                             | AC                                             | AC                             | AC                             |
| Electrical Durability:                                             | 30 cycles per hour                             | 30 cycles per hour                             | 30 cycles per hour             | 30 cycles per hour             |
| Mechanical Durability:                                             | 60 cycles per hour                             | 60 cycles per hour                             | 60 cycles per hour             | 60 cycles per hour             |
| Neutral Pole Current ([%I <sub>n</sub> ]):                         | 100 %                                          | 100 %                                          | 100 %                          | 100 %                          |
| Number of Poles:                                                   | 3                                              | 4                                              | 3                              | 4                              |
| Rated Current (I <sub>n</sub> ):                                   | 1250 A                                         | 1250 A                                         | 1250 A                         | 1250 A                         |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ):               | 12 kV                                          | 12 kV                                          | 12 kV                          | 12 kV                          |
| Rated Insulation Voltage (U <sub>i</sub> ):                        | AC 1000 V                                      | AC 1000 V                                      | AC 1000 V                      | AC 1000 V                      |
| Rated Operational Voltage:                                         | 690 V AC                                       | 690 V AC                                       | 690 V AC                       | 690 V AC                       |
| Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> ): | for 1 s 50 kA<br>for 3 s 36 kA                 | for 1 s 50 kA<br>for 3 s 36 kA                 | for 1 s 50 kA<br>for 3 s 36 kA | for 1 s 50 kA<br>for 3 s 36 kA |
| Rated Uninterrupted Current (I <sub>u</sub> ):                     | 1250 A                                         | 1250 A                                         | 1250 A                         | 1250 A                         |
| Rated Voltage (U <sub>r</sub> ):                                   | 690 V                                          | 690 V                                          | 690 V                          | 690 V                          |
| Short-Circuit Performance Level:                                   | N                                              | N                                              | N                              | N                              |
| Standards:                                                         | IEC                                            | IEC                                            | IEC                            | IEC                            |
| Sub-type:                                                          | FA2                                            | FA2                                            | FA2                            | FA2                            |
| Terminal Connection Type:                                          | Fixed Circuit-Breakers<br>Rear flat Horizontal | Fixed Circuit-Breakers<br>Rear flat Horizontal | Withdrawable Circuit-Breakers  | Withdrawable Circuit-Breakers  |



FA2N/MS  
1600 3p FHR

FA2N/MS  
1600 4p FHR

FA2N/MS  
1600 3p WMP

FA2N/MS 1600 4p  
WMP

## Dimensions

|                             |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|
| Product Net Depth / Length: | 270 mm | 270 mm | 383 mm | 383 mm |
| Product Net Height:         | 371 mm | 371 mm | 425 mm | 425 mm |
| Product Net Weight:         | 45 kg  | 45 kg  | 49 kg  | 49 kg  |
| Product Net Width:          | 276 mm | 366 mm | 317 mm | 407 mm |

## Container Information

|                                 |             |             |             |             |
|---------------------------------|-------------|-------------|-------------|-------------|
| Package Level 1 Depth / Length: | 420 mm      | 615 mm      | 515 mm      | 615 mm      |
| Package Level 1 EAN:            |             |             |             |             |
| Package Level 1 Gross Weight:   | 46 kg       | 58 kg       | 53 kg       | 60 kg       |
| Package Level 1 Height:         | 610 mm      | 610 mm      | 610 mm      | 610 mm      |
| Package Level 1 Units:          | box 1 piece | box 1 piece | box 1 piece | box 1 piece |
| Package Level 1 Width:          | 515 mm      | 515 mm      | 515 mm      | 515 mm      |

## Additional Information

|                    |                     |                     |                     |                     |
|--------------------|---------------------|---------------------|---------------------|---------------------|
| Product Main Type: | Formula Air         | Formula Air         | Formula Air         | Formula Air         |
| Product Name:      | Switch-disconnector | Switch-disconnector | Switch-disconnector | Switch-disconnector |
| Product Type:      | Switch-disconnector | Switch-disconnector | Switch-disconnector | Switch-disconnector |

|          |   |   |   |   |
|----------|---|---|---|---|
| Version: | F | F | W | W |
|----------|---|---|---|---|

## Technical

|                                                                    |                                                |                                                |                                |                                |
|--------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|--------------------------------|--------------------------------|
| Current Type:                                                      | AC                                             | AC                                             | AC                             | AC                             |
| Electrical Durability:                                             | 30 cycles per hour                             | 30 cycles per hour                             | 30 cycles per hour             | 30 cycles per hour             |
| Mechanical Durability:                                             | 60 cycles per hour                             | 60 cycles per hour                             | 60 cycles per hour             | 60 cycles per hour             |
| Neutral Pole Current ([%I <sub>n</sub> ]):                         | 100 %                                          | 100 %                                          | 100 %                          | 100 %                          |
| Number of Poles:                                                   | 3                                              | 4                                              | 3                              | 4                              |
| Rated Current (I <sub>n</sub> ):                                   | 1600 A                                         | 1600 A                                         | 1600 A                         | 1600 A                         |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ):               | 12 kV                                          | 12 kV                                          | 12 kV                          | 12 kV                          |
| Rated Insulation Voltage (U <sub>i</sub> ):                        | AC 1000 V                                      | AC 1000 V                                      | AC 1000 V                      | AC 1000 V                      |
| Rated Operational Voltage:                                         | 690 V AC                                       | 690 V AC                                       | 690 V AC                       | 690 V AC                       |
| Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> ): | for 1 s 50 kA<br>for 3 s 36 kA                 | for 1 s 50 kA<br>for 3 s 36 kA                 | for 1 s 50 kA<br>for 3 s 36 kA | for 1 s 50 kA<br>for 3 s 36 kA |
| Rated Uninterrupted Current (I <sub>u</sub> ):                     | 1600 A                                         | 1600 A                                         | 1600 A                         | 1600 A                         |
| Rated Voltage (U <sub>r</sub> ):                                   | 690 V                                          | 690 V                                          | 690 V                          | 690 V                          |
| Short-Circuit Performance Level:                                   | N                                              | N                                              | N                              | N                              |
| Standards:                                                         | IEC                                            | IEC                                            | IEC                            | IEC                            |
| Sub-type:                                                          | FA2                                            | FA2                                            | FA2                            | FA2                            |
| Terminal Connection Type:                                          | Fixed Circuit-Breakers<br>Rear flat Horizontal | Fixed Circuit-Breakers<br>Rear flat Horizontal | Withdrawable Circuit-Breakers  | Withdrawable Circuit-Breakers  |



FA2N/MS  
2000 3p FHR

FA2N/MS  
2000 4p FHR

FA2N/MS 2000  
3p WMP

FA2N/MS 2000 4p  
WMP

Dimensions

|                             |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|
| Product Net Depth / Length: | 270 mm | 270 mm | 383 mm | 383 mm |
| Product Net Height:         | 371 mm | 371 mm | 425 mm | 425 mm |
| Product Net Weight:         | 45 kg  | 45 kg  | 49 kg  | 49 kg  |
| Product Net Width:          | 276 mm | 366 mm | 317 mm | 407 mm |

Container Information

|                                 |             |             |             |             |
|---------------------------------|-------------|-------------|-------------|-------------|
| Package Level 1 Depth / Length: | 420 mm      | 615 mm      | 515 mm      | 615 mm      |
| Package Level 1 EAN:            |             |             |             |             |
| Package Level 1 Gross Weight:   | 46 kg       | 58 kg       | 53 kg       | 60 kg       |
| Package Level 1 Height:         | 610 mm      | 610 mm      | 610 mm      | 610 mm      |
| Package Level 1 Units:          | box 1 piece | box 1 piece | box 1 piece | box 1 piece |
| Package Level 1 Width:          | 515 mm      | 515 mm      | 515 mm      | 515 mm      |

Additional Information

|                    |                     |                     |                     |                     |
|--------------------|---------------------|---------------------|---------------------|---------------------|
| Product Main Type: | Formula Air         | Formula Air         | Formula Air         | Formula Air         |
| Product Name:      | Switch-disconnector | Switch-disconnector | Switch-disconnector | Switch-disconnector |
| Product Type:      | Switch-disconnector | Switch-disconnector | Switch-disconnector | Switch-disconnector |
| Version:           | F                   | F                   | W                   | W                   |

Technical

|                                                                    |                                                |                                                |                                |                                |
|--------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|--------------------------------|--------------------------------|
| Current Type:                                                      | AC                                             | AC                                             | AC                             | AC                             |
| Electrical Durability:                                             | 30 cycles per hour                             | 30 cycles per hour                             | 30 cycles per hour             | 30 cycles per hour             |
| Mechanical Durability:                                             | 60 cycles per hour                             | 60 cycles per hour                             | 60 cycles per hour             | 60 cycles per hour             |
| Neutral Pole Current ([%I <sub>n</sub> ]):                         | 100 %                                          | 100 %                                          | 100 %                          | 100 %                          |
| Number of Poles:                                                   | 3                                              | 4                                              | 3                              | 4                              |
| Rated Current (I <sub>n</sub> ):                                   | 2000 A                                         | 2000 A                                         | 2000 A                         | 2000 A                         |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ):               | 12 kV                                          | 12 kV                                          | 12 kV                          | 12 kV                          |
| Rated Insulation Voltage (U <sub>i</sub> ):                        | AC 1000 V                                      | AC 1000 V                                      | AC 1000 V                      | AC 1000 V                      |
| Rated Operational Voltage:                                         | 690 V AC                                       | 690 V AC                                       | 690 V AC                       | 690 V AC                       |
| Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> ): | for 1 s 50 kA<br>for 3 s 36 kA                 | for 1 s 50 kA<br>for 3 s 36 kA                 | for 1 s 50 kA<br>for 3 s 36 kA | for 1 s 50 kA<br>for 3 s 36 kA |
| Rated Uninterrupted Current (I <sub>u</sub> ):                     | 2000 A                                         | 2000 A                                         | 2000 A                         | 2000 A                         |
| Rated Voltage (U <sub>r</sub> ):                                   | 690 V                                          | 690 V                                          | 690 V                          | 690 V                          |
| Short-Circuit Performance Level:                                   | N                                              | N                                              | N                              | N                              |
| Standards:                                                         | IEC                                            | IEC                                            | IEC                            | IEC                            |
| Sub-type:                                                          | FA2                                            | FA2                                            | FA2                            | FA2                            |
| Terminal Connection Type:                                          | Fixed Circuit-Breakers<br>Rear flat Horizontal | Fixed Circuit-Breakers<br>Rear flat Horizontal | Withdrawable Circuit-Breakers  | Withdrawable Circuit-Breakers  |



## FA2N 800 3p WMP

## FA2N 800 4p WMP

## FA2N 800 3p FHR

## FA2N 800 4p FHR

### Dimensions

|                             |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|
| Product Net Depth / Length: | 383 mm | 383 mm | 270 mm | 270 mm |
| Product Net Height:         | 425 mm | 425 mm | 371 mm | 371 mm |
| Product Net Weight:         | 49 kg  | 49 kg  | 45 kg  | 45 kg  |
| Product Net Width:          | 317 mm | 407 mm | 276 mm | 366 mm |

### Container Information

|                                 |             |             |             |             |
|---------------------------------|-------------|-------------|-------------|-------------|
| Package Level 1 Depth / Length: | 920 mm      | 1257 mm     | 515 mm      | 615 mm      |
| Package Level 1 EAN:            |             |             |             |             |
| Package Level 1 Gross Weight:   | 53 kg       | 60 kg       | 46 kg       | 58 kg       |
| Package Level 1 Height:         | 610 mm      | 610 mm      | 610 mm      | 610 mm      |
| Package Level 1 Units:          | box 1 piece | box 1 piece | box 1 piece | box 1 piece |
| Package Level 1 Width:          | 515 mm      | 515 mm      | 515 mm      | 515 mm      |

### Additional Information

|                    |                     |                     |                     |                     |
|--------------------|---------------------|---------------------|---------------------|---------------------|
| Product Main Type: | Formula Air         | Formula Air         | Formula Air         | Formula Air         |
| Product Name:      | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker |
| Product Type:      | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker |
| Version:           | W                   | W                   | F                   | F                   |

### Technical

|                                                                                            |                                                                                                                      |                                                                                                                      |                                                                                                                      |                                                                                                                      |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Current Type:                                                                              | AC                                                                                                                   | AC                                                                                                                   | AC                                                                                                                   | AC                                                                                                                   |
| Electrical Durability:                                                                     | 30 cycles per hour                                                                                                   | 30 cycles per hour                                                                                                   | 30 cycles per hour                                                                                                   | 30 cycles per hour                                                                                                   |
| Mechanical Durability:                                                                     | 60 cycles per hour                                                                                                   | 60 cycles per hour                                                                                                   | 60 cycles per hour                                                                                                   | 60 cycles per hour                                                                                                   |
| Neutral Pole Current ([%I <sub>n</sub> )]:                                                 | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                |
| Number of Poles:                                                                           | 3                                                                                                                    | 4                                                                                                                    | 3                                                                                                                    | 4                                                                                                                    |
| Rated Current (I <sub>n</sub> ):                                                           | 800 A                                                                                                                | 800 A                                                                                                                | 800 A                                                                                                                | 800 A                                                                                                                |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ):                                       | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            |
| Rated Insulation Voltage (U <sub>i</sub> ):                                                | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            |
| Rated Operational Voltage:                                                                 | 690 V AC                                                                                                             | 690 V AC                                                                                                             | 690 V AC                                                                                                             | 690 V AC                                                                                                             |
| Rated Service Short-Circuit Breaking Capacity, in % of I <sub>cs</sub> (I <sub>cs</sub> ): | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ):                         | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA |
| Rated Uninterrupted Current (I <sub>u</sub> ):                                             | 800 A                                                                                                                | 800 A                                                                                                                | 800 A                                                                                                                | 800 A                                                                                                                |

|                                                |                               |                               |                                                |                                                |
|------------------------------------------------|-------------------------------|-------------------------------|------------------------------------------------|------------------------------------------------|
| Rated Uninterrupted Current (I <sub>u</sub> ): | 800 A                         | 800 A                         | 800 A                                          | 800 A                                          |
| Rated Voltage (U <sub>r</sub> ):               | 690 V                         | 690 V                         | 690 V                                          | 690 V                                          |
| Short-Circuit Performance Level:               | N                             | N                             | N                                              | N                                              |
| Standards:                                     | IEC                           | IEC                           | IEC                                            | IEC                                            |
| Sub-type:                                      | FA2                           | FA2                           | FA2                                            | FA2                                            |
| Terminal Connection Type:                      | Withdrawable Circuit-Breakers | Withdrawable Circuit-Breakers | Fixed Circuit-Breakers<br>Rear flat Horizontal | Fixed Circuit-Breakers<br>Rear flat Horizontal |



FA2N 1000  
3p WMP



FA2N 1000  
4p WMP



FA2N 1000  
3p FHR



FA2N 1000 4p  
FHR

Dimensions

|                             |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|
| Product Net Depth / Length: | 383 mm | 383 mm | 270 mm | 270 mm |
| Product Net Height:         | 425 mm | 425 mm | 371 mm | 371 mm |
| Product Net Weight:         | 49 kg  | 49 kg  | 45 kg  | 45 kg  |
| Product Net Width:          | 317 mm | 407 mm | 276 mm | 366 mm |

Container Information

|                                 |             |             |             |             |
|---------------------------------|-------------|-------------|-------------|-------------|
| Package Level 1 Depth / Length: | 785 mm      | 785 mm      | 615 mm      | 615 mm      |
| Package Level 1 EAN:            |             |             |             |             |
| Package Level 1 Gross Weight:   | 53 kg       | 60 kg       | 46 kg       | 58 kg       |
| Package Level 1 Height:         | 610 mm      | 610 mm      | 610 mm      | 610 mm      |
| Package Level 1 Units:          | box 1 piece | box 1 piece | box 1 piece | box 1 piece |
| Package Level 1 Width:          | 515 mm      | 515 mm      | 515 mm      | 515 mm      |

Additional Information

|                    |                     |                     |                     |                     |
|--------------------|---------------------|---------------------|---------------------|---------------------|
| Product Main Type: | Formula Air         | Formula Air         | Formula Air         | Formula Air         |
| Product Name:      | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker |
| Product Type:      | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker |
| Version:           | W                   | W                   | F                   | F                   |

Technical

|                        |                    |                    |                    |                    |
|------------------------|--------------------|--------------------|--------------------|--------------------|
| Current Type:          | AC                 | AC                 | AC                 | AC                 |
| Electrical Durability: | 30 cycles per hour | 30 cycles per hour | 30 cycles per hour | 30 cycles per hour |
| Mechanical Durability: | 60 cycles per hour | 60 cycles per hour | 60 cycles per hour | 60 cycles per hour |

|                                                                                            |                                                                                                                      |                                                                                                                      |                                                                                                                      |                                                                                                                      |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Neutral Pole Current ([%I <sub>n</sub> ]):                                                 | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                |
| Number of Poles:                                                                           | 3                                                                                                                    | 4                                                                                                                    | 3                                                                                                                    | 4                                                                                                                    |
| Rated Current (I <sub>n</sub> ):                                                           | 1000 A                                                                                                               | 1000 A                                                                                                               | 1000 A                                                                                                               | 1000 A                                                                                                               |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ):                                       | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            |
| Rated Insulation Voltage (U <sub>i</sub> ):                                                | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            |
| Rated Operational Voltage:                                                                 | 690 V AC                                                                                                             | 690 V AC                                                                                                             | 690 V AC                                                                                                             | 690 V AC                                                                                                             |
| Rated Service Short-Circuit Breaking Capacity, in % of I <sub>cu</sub> (I <sub>cs</sub> ): | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ):                         | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA |
| Rated Uninterrupted Current (I <sub>u</sub> ):                                             | 1000 A                                                                                                               | 1000 A                                                                                                               | 1000 A                                                                                                               | 1000 A                                                                                                               |
| Rated Voltage (U <sub>r</sub> ):                                                           | 690 V                                                                                                                | 690 V                                                                                                                | 690 V                                                                                                                | 690 V                                                                                                                |
| Short-Circuit Performance Level:                                                           | N                                                                                                                    | N                                                                                                                    | N                                                                                                                    | N                                                                                                                    |
| Standards:                                                                                 | IEC                                                                                                                  | IEC                                                                                                                  | IEC                                                                                                                  | IEC                                                                                                                  |
| Sub-type:                                                                                  | FA2                                                                                                                  | FA2                                                                                                                  | FA2                                                                                                                  | FA2                                                                                                                  |
| Terminal Connection Type:                                                                  | Withdrawable Circuit-Breakers                                                                                        | Withdrawable Circuit-Breakers                                                                                        | Fixed Circuit-Breakers<br>Rear flat Horizontal                                                                       | Fixed Circuit-Breakers<br>Rear flat Horizontal                                                                       |



FA2N 1000 3p  
WMP



FA2N 1000  
4p WMP



FA2N 1000  
3p FHR



FA2N 1000  
4p FHR

Dimensions

|                             |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|
| Product Net Depth / Length: | 383 mm | 383 mm | 270 mm | 270 mm |
| Product Net Height:         | 425 mm | 425 mm | 371 mm | 371 mm |
| Product Net Weight:         | 49 kg  | 49 kg  | 45 kg  | 45 kg  |
| Product Net Width:          | 317 mm | 407 mm | 276 mm | 366 mm |

Container Information

|                                 |             |             |             |             |
|---------------------------------|-------------|-------------|-------------|-------------|
| Package Level 1 Depth / Length: | 785 mm      | 785 mm      | 615 mm      | 615 mm      |
| Package Level 1 EAN:            |             |             |             |             |
| Package Level 1 Gross Weight:   | 53 kg       | 60 kg       | 46 kg       | 58 kg       |
| Package Level 1 Height:         | 610 mm      | 610 mm      | 610 mm      | 610 mm      |
| Package Level 1 Units:          | box 1 piece | box 1 piece | box 1 piece | box 1 piece |
| Package Level 1 Width:          | 515 mm      | 515 mm      | 515 mm      | 515 mm      |

|                        |                     |                     |                     |                     |
|------------------------|---------------------|---------------------|---------------------|---------------------|
|                        |                     |                     |                     |                     |
| Additional Information |                     |                     |                     |                     |
| Product Main Type:     | Formula Air         | Formula Air         | Formula Air         | Formula Air         |
| Product Name:          | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker |
| Product Type:          | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker |
| Version:               | W                   | W                   | F                   | F                   |

|                                                                                            |                                                                                                                      |                                                                                                                      |                                                                                                                      |                                                                                                                      |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
|                                                                                            |                                                                                                                      |                                                                                                                      |                                                                                                                      |                                                                                                                      |
| Technical                                                                                  |                                                                                                                      |                                                                                                                      |                                                                                                                      |                                                                                                                      |
| Current Type:                                                                              | AC                                                                                                                   | AC                                                                                                                   | AC                                                                                                                   | AC                                                                                                                   |
| Electrical Durability:                                                                     | 30 cycles per hour                                                                                                   | 30 cycles per hour                                                                                                   | 30 cycles per hour                                                                                                   | 30 cycles per hour                                                                                                   |
| Mechanical Durability:                                                                     | 60 cycles per hour                                                                                                   | 60 cycles per hour                                                                                                   | 60 cycles per hour                                                                                                   | 60 cycles per hour                                                                                                   |
| Neutral Pole Current ([%I <sub>N</sub> ]):                                                 | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                |
| Number of Poles:                                                                           | 3                                                                                                                    | 4                                                                                                                    | 3                                                                                                                    | 4                                                                                                                    |
| Rated Current (I <sub>N</sub> ):                                                           | 1000 A                                                                                                               | 1000 A                                                                                                               | 1000 A                                                                                                               | 1000 A                                                                                                               |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ):                                       | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            |
| Rated Insulation Voltage (U <sub>i</sub> ):                                                | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            |
| Rated Operational Voltage:                                                                 | 690 V AC                                                                                                             | 690 V AC                                                                                                             | 690 V AC                                                                                                             | 690 V AC                                                                                                             |
| Rated Service Short-Circuit Breaking Capacity, in % of I <sub>cu</sub> (I <sub>cs</sub> ): | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ):                         | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA |
| Rated Uninterrupted Current (I <sub>u</sub> ):                                             | 1000 A                                                                                                               | 1000 A                                                                                                               | 1000 A                                                                                                               | 1000 A                                                                                                               |
| Rated Voltage (U <sub>r</sub> ):                                                           | 690 V                                                                                                                | 690 V                                                                                                                | 690 V                                                                                                                | 690 V                                                                                                                |
| Short-Circuit Performance Level:                                                           | N                                                                                                                    | N                                                                                                                    | N                                                                                                                    | N                                                                                                                    |
| Standards:                                                                                 | IEC                                                                                                                  | IEC                                                                                                                  | IEC                                                                                                                  | IEC                                                                                                                  |
| Sub-type:                                                                                  | FA2                                                                                                                  | FA2                                                                                                                  | FA2                                                                                                                  | FA2                                                                                                                  |
| Terminal Connection Type:                                                                  | Withdrawable Circuit-Breakers                                                                                        | Withdrawable Circuit-Breakers                                                                                        | Fixed Circuit-Breakers<br>Rear flat Horizontal                                                                       | Fixed Circuit-Breakers<br>Rear flat Horizontal                                                                       |



FA2N 1250  
3p WMP



FA2N 1250  
4p WMP



FA2N 1250  
3p FHR



FA2N 1250  
4p FHR

|                             |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|
| Dimensions                  |        |        |        |        |
| Product Net Depth / Length: | 383 mm | 383 mm | 270 mm | 270 mm |
| Product Net Height:         | 425 mm | 425 mm | 371 mm | 371 mm |

|                     |        |        |        |        |
|---------------------|--------|--------|--------|--------|
| Product Net Weight: | 49 kg  | 49 kg  | 45 kg  | 45 kg  |
| Product Net Width:  | 317 mm | 407 mm | 276 mm | 366 mm |

Container Information

|                                 |             |             |             |             |
|---------------------------------|-------------|-------------|-------------|-------------|
| Package Level 1 Depth / Length: | 785 mm      | 1000 mm     | 615 mm      | 785 mm      |
| Package Level 1 EAN:            |             |             |             |             |
| Package Level 1 Gross Weight:   | 53 kg       | 60 kg       | 46 kg       | 58 kg       |
| Package Level 1 Height:         | 610 mm      | 610 mm      | 610 mm      | 610 mm      |
| Package Level 1 Units:          | box 1 piece | box 1 piece | box 1 piece | box 1 piece |
| Package Level 1 Width:          | 515 mm      | 515 mm      | 515 mm      | 515 mm      |

Additional Information

|                    |                     |                     |                     |                     |
|--------------------|---------------------|---------------------|---------------------|---------------------|
| Product Main Type: | Formula Air         | Formula Air         | Formula Air         | Formula Air         |
| Product Name:      | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker |
| Product Type:      | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker |
| Version:           | W                   | W                   | F                   | F                   |

Technical

|                                                                                            |                                                                                                                      |                                                                                                                      |                                                                                                                      |                                                                                                                      |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Current Type:                                                                              | AC                                                                                                                   | AC                                                                                                                   | AC                                                                                                                   | AC                                                                                                                   |
| Electrical Durability:                                                                     | 30 cycles per hour                                                                                                   | 30 cycles per hour                                                                                                   | 30 cycles per hour                                                                                                   | 30 cycles per hour                                                                                                   |
| Mechanical Durability:                                                                     | 60 cycles per hour                                                                                                   | 60 cycles per hour                                                                                                   | 60 cycles per hour                                                                                                   | 60 cycles per hour                                                                                                   |
| Neutral Pole Current ([%I <sub>n</sub> ]):                                                 | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                |
| Number of Poles:                                                                           | 3                                                                                                                    | 4                                                                                                                    | 3                                                                                                                    | 4                                                                                                                    |
| Rated Current (I <sub>n</sub> ):                                                           | 1250 A                                                                                                               | 1250 A                                                                                                               | 1250 A                                                                                                               | 1250 A                                                                                                               |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ):                                       | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            |
| Rated Insulation Voltage (U <sub>i</sub> ):                                                | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            |
| Rated Operational Voltage:                                                                 | 690 V AC                                                                                                             | 690 V AC                                                                                                             | 690 V AC                                                                                                             | 690 V AC                                                                                                             |
| Rated Service Short-Circuit Breaking Capacity, in % of I <sub>cu</sub> (I <sub>cs</sub> ): | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ):                         | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA |
| Rated Uninterrupted Current (I <sub>u</sub> ):                                             | 1250 A                                                                                                               | 1250 A                                                                                                               | 1250 A                                                                                                               | 1250 A                                                                                                               |
| Rated Voltage (U <sub>r</sub> ):                                                           | 690 V                                                                                                                | 690 V                                                                                                                | 690 V                                                                                                                | 690 V                                                                                                                |
| Short-Circuit Performance Level:                                                           | N                                                                                                                    | N                                                                                                                    | N                                                                                                                    | N                                                                                                                    |
| Standards:                                                                                 | IEC                                                                                                                  | IEC                                                                                                                  | IEC                                                                                                                  | IEC                                                                                                                  |
| Sub-type:                                                                                  | FA2                                                                                                                  | FA2                                                                                                                  | FA2                                                                                                                  | FA2                                                                                                                  |
| Terminal Connection Type:                                                                  | Withdrawable Circuit-Breakers                                                                                        | Withdrawable Circuit-Breakers                                                                                        | Fixed Circuit-Breakers<br>Rear flat Horizontal                                                                       | Fixed Circuit-Breakers<br>Rear flat Horizontal                                                                       |



## FA2N 1600 3p WMP

## FA2N 1600 4p WMP

## FA2N 1600 3p FHR

## FA2N 1600 4p FHR

### Dimensions

|                             |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|
| Product Net Depth / Length: | 383 mm | 383 mm | 270 mm | 270 mm |
| Product Net Height:         | 425 mm | 425 mm | 371 mm | 371 mm |
| Product Net Weight:         | 49 kg  | 49 kg  | 45 kg  | 45 kg  |
| Product Net Width:          | 317 mm | 407 mm | 276 mm | 366 mm |

### Container Information

|                                 |             |             |             |             |
|---------------------------------|-------------|-------------|-------------|-------------|
| Package Level 1 Depth / Length: | 1127 mm     | 420 mm      | 615 mm      | 615 mm      |
| Package Level 1 EAN:            |             |             |             |             |
| Package Level 1 Gross Weight:   | 53 kg       | 60 kg       | 46 kg       | 58 kg       |
| Package Level 1 Height:         | 610 mm      | 610 mm      | 610 mm      | 610 mm      |
| Package Level 1 Units:          | box 1 piece | box 1 piece | box 1 piece | box 1 piece |
| Package Level 1 Width:          | 515 mm      | 515 mm      | 515 mm      | 515 mm      |

### Additional Information

|                    |                     |                     |                     |                     |
|--------------------|---------------------|---------------------|---------------------|---------------------|
| Product Main Type: | Formula Air         | Formula Air         | Formula Air         | Formula Air         |
| Product Name:      | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker |
| Product Type:      | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker |
| Version:           | W                   | W                   | F                   | F                   |

### Technical

|                                                                                            |                                                                                                                      |                                                                                                                      |                                                                                                                      |                                                                                                                      |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Current Type:                                                                              | AC                                                                                                                   | AC                                                                                                                   | AC                                                                                                                   | AC                                                                                                                   |
| Electrical Durability:                                                                     | 30 cycles per hour                                                                                                   | 30 cycles per hour                                                                                                   | 30 cycles per hour                                                                                                   | 30 cycles per hour                                                                                                   |
| Mechanical Durability:                                                                     | 60 cycles per hour                                                                                                   | 60 cycles per hour                                                                                                   | 60 cycles per hour                                                                                                   | 60 cycles per hour                                                                                                   |
| Neutral Pole Current ([%I <sub>n</sub> ]):                                                 | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                |
| Number of Poles:                                                                           | 3                                                                                                                    | 4                                                                                                                    | 3                                                                                                                    | 4                                                                                                                    |
| Rated Current (I <sub>n</sub> ):                                                           | 1600 A                                                                                                               | 1600 A                                                                                                               | 1600 A                                                                                                               | 1600 A                                                                                                               |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ):                                       | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            |
| Rated Insulation Voltage (U <sub>i</sub> ):                                                | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            |
| Rated Operational Voltage:                                                                 | 690 V AC                                                                                                             | 690 V AC                                                                                                             | 690 V AC                                                                                                             | 690 V AC                                                                                                             |
| Rated Service Short-Circuit Breaking Capacity, in % of I <sub>cu</sub> (I <sub>cs</sub> ): | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ):                         | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA |

|                                                |                               |                               |                                                |                                                |
|------------------------------------------------|-------------------------------|-------------------------------|------------------------------------------------|------------------------------------------------|
| Rated Uninterrupted Current (I <sub>u</sub> ): | 1600 A                        | 1600 A                        | 1600 A                                         | 1600 A                                         |
| Rated Voltage (U <sub>r</sub> ):               | 690 V                         | 690 V                         | 690 V                                          | 690 V                                          |
| Short-Circuit Performance Level:               | N                             | N                             | N                                              | N                                              |
| Standards:                                     | IEC                           | IEC                           | IEC                                            | IEC                                            |
| Sub-type:                                      | FA2                           | FA2                           | FA2                                            | FA2                                            |
| Terminal Connection Type:                      | Withdrawable Circuit-Breakers | Withdrawable Circuit-Breakers | Fixed Circuit-Breakers<br>Rear flat Horizontal | Fixed Circuit-Breakers<br>Rear flat Horizontal |



FA2N 2000  
4p FHR



FA2N 2000  
3p FHR



FA2N 2000 4p  
WMP



FA2N 2000 3p  
WMP

Dimensions

|                             |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|
| Product Net Depth / Length: | 270 mm | 270 mm | 383 mm | 383 mm |
| Product Net Height:         | 371 mm | 371 mm | 425 mm | 425 mm |
| Product Net Weight:         | 45 kg  | 45 kg  | 49 kg  | 49 kg  |
| Product Net Width:          | 366 mm | 276 mm | 407 mm | 317 mm |

Container Information

|                                 |             |             |             |             |
|---------------------------------|-------------|-------------|-------------|-------------|
| Package Level 1 Depth / Length: | 785 mm      | 515 mm      | 420 mm      | 1000 mm     |
| Package Level 1 EAN:            |             |             |             |             |
| Package Level 1 Gross Weight:   | 58 kg       | 46 kg       | 60 kg       | 53 kg       |
| Package Level 1 Height:         | 610 mm      | 610 mm      | 610 mm      | 610 mm      |
| Package Level 1 Units:          | box 1 piece | box 1 piece | box 1 piece | box 1 piece |
| Package Level 1 Width:          | 515 mm      | 515 mm      | 515 mm      | 515 mm      |

Additional Information

|                    |                     |                     |                     |                     |
|--------------------|---------------------|---------------------|---------------------|---------------------|
| Product Main Type: | Formula Air         | Formula Air         | Formula Air         | Formula Air         |
| Product Name:      | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker |
| Product Type:      | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker | Air Circuit Breaker |
| Version:           | F                   | F                   | W                   | W                   |

Technical

|                        |                    |                    |                    |                    |
|------------------------|--------------------|--------------------|--------------------|--------------------|
| Current Type:          | AC                 | AC                 | AC                 | AC                 |
| Electrical Durability: | 30 cycles per hour | 30 cycles per hour | 30 cycles per hour | 30 cycles per hour |

|                                                                                            |                                                                                                                      |                                                                                                                      |                                                                                                                      |                                                                                                                      |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Mechanical Durability:                                                                     | 60 cycles per hour                                                                                                   | 60 cycles per hour                                                                                                   | 60 cycles per hour                                                                                                   | 60 cycles per hour                                                                                                   |
| Neutral Pole Current ([%I <sub>u</sub> ]):                                                 | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                |
| Number of Poles:                                                                           | 4                                                                                                                    | 3                                                                                                                    | 4                                                                                                                    | 3                                                                                                                    |
| Rated Current (I <sub>n</sub> ):                                                           | 2000 A                                                                                                               | 2000 A                                                                                                               | 2000 A                                                                                                               | 2000 A                                                                                                               |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ):                                       | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            | acc. to IEC 60947-2 12 kV                                                                                            |
| Rated Insulation Voltage (U <sub>i</sub> ):                                                | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            | AC 1000 V                                                                                                            |
| Rated Operational Voltage:                                                                 | 690 V AC                                                                                                             | 690 V AC                                                                                                             | 690 V AC                                                                                                             | 690 V AC                                                                                                             |
| Rated Service Short-Circuit Breaking Capacity, in % of I <sub>cu</sub> (I <sub>cs</sub> ): | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                | 100 %                                                                                                                |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ):                         | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA | (400 V AC) 65 kA<br>(415 V AC) 65 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 50 kA<br>(690 V AC) 50 kA |
| Rated Uninterrupted Current (I <sub>u</sub> ):                                             | 2000 A                                                                                                               | 2000 A                                                                                                               | 2000 A                                                                                                               | 2000 A                                                                                                               |
| Rated Voltage (U <sub>r</sub> ):                                                           | 690 V                                                                                                                | 690 V                                                                                                                | 690 V                                                                                                                | 690 V                                                                                                                |
| Short-Circuit Performance Level:                                                           | N                                                                                                                    | N                                                                                                                    | N                                                                                                                    | N                                                                                                                    |
| Standards:                                                                                 | IEC                                                                                                                  | IEC                                                                                                                  | IEC                                                                                                                  | IEC                                                                                                                  |
| Sub-type:                                                                                  | FA2                                                                                                                  | FA2                                                                                                                  | FA2                                                                                                                  | FA2                                                                                                                  |
| Terminal Connection Type:                                                                  | Fixed Circuit-Breakers<br>Rear flat Horizontal                                                                       | Fixed Circuit-Breakers<br>Rear flat Horizontal                                                                       | Withdrawable Circuit-Breakers                                                                                        | Withdrawable Circuit-Breakers                                                                                        |



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