## Automation

## RFW and RIW <br> Switch-Disconnectors



# Switch-Disconnectors RFW and RIW 

## Summary

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## Switch-disconnecting with safety and efficiency



WEG switch-disconnector-fuses RFW and switch-disconnectors RIW are designed according to IEC 60947-3 and IEC 60947-1 international performance standards for on load distribution circuits, making and braking currents on a grid and for general electrical equipment applications. On the RFW series, it is also possible to mention the protection of electrical equipment against short-circuits and overloads with "NH" blade contact fuses.

Both switch-disconnector lines are available on currents of $100 \mathrm{~A}, 160 \mathrm{~A}, 250 \mathrm{~A}, 400 \mathrm{~A}$ and 630 A models. There is also a 1,250 A model on the RIW series.

The switch-disconnector-fuses RFW include bases for NH blade contact fuses with sizes of: 000, 00, 1, 2 and 3 . These blade contact fuse dimensions are established by the DIN 43620 standard.

RIW and RFW drives are rotary, made through direct frontal handle or by panel door mounting handle, which is provided as accessory. The door mounting handles allow locking by padlocks in off position.


## RFW and RIW Features

RFW and RIW characteristics that guarantee safety, performance and easy operation:

- Self-extinguishing thermoplastics (VO flammability class)
- Easy installation
- High electrical and mechanical endurance
- Self-tightening and self-cleaning contacts
- Transparent front cover that allows fuses visualization
- Wide range of accessories and their status (RFW series only)
- Easy fuse replacements (RFW series only)
- Manually operated drive (spring powered)
- Built-in auxiliary contact
- Silver plated parts of current circuits
- Complete isolation of fuse links in "off" position (RFW series only)
- High short-circuit making and breaking capacity (RFW series only)
- Double insulation, safe clearance between open contacts
- Safety of service and switching


## Applications

WEG RFW and RIW switch-disconnectors were developed to guarantee safety and efficiency on grids and equipments during "on load" manual switching, being able to make and break currents, including to support short-circuit currents for a specific period. Besides all of these characteristics, the RFW series saves physical space as it is applied along the NH blade contact fuses.

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## Sizing the Switch-Disconnector



## 1 - Fuse

The application will demand or not a RFW switch-disconnector-fuses depending on space savings (fuses would be already installed inside the switch-disconnector). Regarding the fuse class, it is indicated the aR fuse if the application requires only a short-circuit protection like a Soft-Starter or a Variable Speed Drive, or in case the protection should be for short-circuit and overload, gLgG fuses are an option.
The RFW switch-disconnector-fuses size is directly linked to the dimensioned NH type fuse with blade contacts size established by standard DIN 43620 (000 up to 3). Based on the fuse size definition, it is possible to select the frame of the switch-disconnector-fuses (refer to the chart at page 9).

At those cases where it is necessary just circuit disconnection, the RIW model is the right choice. For applications or machines that demands smaller currents there is also the MSW switch-disconnector in WEG's product portfolio.

## 2-Current

Secondly, it must be checked if the RFW or RIW is capable to carry the circuit rated current (the maximum values are presented on page 9).
At last, the rated current of the fuse can be higher than the switch-disconnector one, due to criteria of fuse dimensioning.

## 3 - Handle and Shaft

The RFW and RIW already come with a direct frontal handle. But in case it is required an external handle for panel door mounting, this accessory is easily attainable.
For the door mounting application, it is also necessary to use a shaft, which must have a length equal to or longer than the distance required between the switch-disconnector and the handle.

With these characteristics, it is possible to define a standard switch-disconnector, but WEG offers other accessories that may be required for each application.

## 4 - Accessories

Besides the wide range of handles and shafts for panel door mounting, there are other accessories to mention:

## 4.a - Terminal Cover

Aiming at enhancing the safety of machinery and equipment, the RFW and RIW series provide terminal covers that reduce the risk of inadvertent contact with the terminals. This accessory must cover all the poles with live conductors.

## 4.b - Fuse Link Cover

The RFW switch-disconnector is supplied with the fuse links cover, but it can be purchased separately as a spare part.

Note: 1) WEG also offers solutions on Fuses-Switch-Dlsconnectors, that has also the possibility to install NH blade contact fuses. In case of interest, please refer to the FSW series catalog.

## Sizing the Switch-Disconnector



## Operating Conditions

- To be installed in a room free of aggressive or explosive gases
- Ambient temperature from $-25^{\circ} \mathrm{C}$ to $+55^{\circ} \mathrm{C}$
- Altitude up to 2,000 meters above sea level
- For outdoor applications, it should be installed in cabinets with protection degree higher than IP34


## Sizing the Switch-Disconnector

## Main Applications

- Main switch-disconnector in distribution panels
- Switch-disconnector with control and protection for electrical circuits and motors


## Installation

RFW switch-disconnectors-fuses and RIW switch-disconnectors are designed for operation in horizontal or vertical position with permissible deviation of 30 degrees, in any direction.

## RFW and RIW

RFW Switch-Disconnector-Fuses

| Reference | Current (A) | NH blade-contact <br> fuse size | Poles |
| :---: | :---: | :---: | :---: |
| RFW100-3 H | 100 | 000 |  |
| RFW160-3 H | 160 | 00 | 3 |
| RFW250-3 H | 250 | 1 |  |
| RFW400-3 H | 400 | 2 |  |
| RFW630-3 H | 630 | 3 |  |



Note: all RFW switch-disconnector-fuses include direct frontal handle.

RIW Switch-Disconnector

| Reference | Current (A) | Poles |
| :---: | :---: | :---: |
| RIW100-3 H | 100 |  |
| RIW160-3 H | 160 |  |
| RIW250-3 H | 250 | 3 |
| RIW400-3 H | 400 |  |
| RIW630-3 H | 630 |  |
| RIW1250-3 H | 1,250 |  |

[^0]


## Accessories

## Rotary Handle for Panel Door Mounting

- Possibility of panel door opening only with the switch-disconnector in OFF position
- Total locking of the system (switch-disconnector and panel door) with up to three padlocks in OFF position
- Door interlock with release mechanism for opening in ON position for panel tests
- Different shaft lenghts
- IP55 protection degree

| Reference | RFW | RIW | Handle (mm) | Color |
| :---: | :---: | :---: | :---: | :---: |
| RIF H-65-B | RFW100 | RIW100 | 65 | Black |
| RIF H-65-R | RFW100 | RIW100 | 65 | Red |
| RIF H-95-B | RFW160 | RIW160/250 | 95 | Black |
| RIF H-95-R | RFW160 | RIW160/250 | 95 | Red |
| RIF H-125-B | RFW250/RFW400 | RIW400/630 | 125 | Black |
| RIF H-125-R | RFW250/RFW400 | RIW400/630 | 125 | Red |
| RIF H-145-B | RFW630 | - | 145 | Black |
| RIF H-145-R | RFW630 | - | 145 | Red |
| RIF H-175-B | RFW630 | RIW1250 | 175 | Black |
| RIF H-175-R | RFW630 | RIW1250 | 175 | Red |



## Shaft for Panel Door Mounting Rotary Drive Handle

| Reference | RFW | RIW | Length (mm) | Width $\times$ Height (mm) |
| :---: | :---: | :---: | :---: | :---: |
| RIF SE 100-8 | RFW100 | RIW100 | 100 | $8 \times 8$ |
| RIF SE 200-8 | RFW100 | RIW100 | 200 | $8 \times 8$ |
| RIF SE 400-8 | RFW100 | RIW100 | 400 | $8 \times 8$ |
| RIF SE 600-8 | RFW100 | RIW100 | 600 | $8 \times 8$ |
| RIF SE 100-10 | RFW160 | RIW160/250 | 100 | $10 \times 10$ |
| RIF SE 200-10 | RFW160 | RIW160/250 | 200 | $10 \times 10$ |
| RIF SE 400-10 | RFW160 | RIW160/250 | 400 | $10 \times 10$ |
| RIF SE 600-10 | RFW160 | RIW160/250 | 600 | $10 \times 10$ |
| RIF SE 100-12 | RFW250/RFW400/RFW630 | RIW400/630/1250 | 100 | $12 \times 12$ |
| RIF SE 200-12 | RFW250/RFW400/RFW630 | RIW400/630/1250 | 200 | $12 \times 12$ |
| RIF SE 400-12 | RFW250/RFW400/RFW630 | RIW400/630/1250 | 400 | $12 \times 12$ |
| RIF SE 600-12 | RFW250/RFW400/RFW630 | RIW400/630/1250 | 600 | $12 \times 12$ |

Note: shaft acessories shown above include a respective coupling mechanism.


## Accessories

## Terminal Cover

- Cover for 3 terminals
- Possibility to install up to 2 terminal covers per switch-disconnector
- Directly fits to switch-disconnector body

| Reference | RFW | RIW | Number of protected <br> poles |
| :---: | :---: | :---: | :---: |
| RIF TS-100 | RFW100 | RIW100 | 3 |
| RIF TS-250 | RFW160 | RIW160/250 | 3 |
| RIF TS-630 | RFW250/RFW400/RFW630 | RIW400/630 | 3 |



## Fuse Link Cover

- Cover for 3 fuse links
- Transparent material, allowing fuse links visualization
- Easy-fitting and tool-less handling

| Reference | RFW |  |  |
| :---: | :---: | :---: | :---: |
| RFW FS-100 | RFW100 | Color |  |
| RFW FS-160 | RFW160 |  |  |
| RFW FS-400 | RFW250/RFW400 |  |  |
| RFW FS-630 | RFW630 | Transparent |  |

Note: the fuse link cover is already included on the standard RFW switch-disconnectors, but it is also available as a spare part.


## Technical Data

RFW Switch-Disconnector-Fuse

| Reference code |  |  | RFW 100 | RFW 160 | RFW 250 | RFW 400 | RFW 630 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Standards |  |  | IEC 60947-3 |  |  |  |  |
| Rated operating voltage Ue |  | V | 690 |  |  |  |  |
| Rated insulation voltage Ui |  | V | 1,000 |  |  |  |  |
| Rated impulse withstand voltage Uimp |  | kV | 8 |  |  |  |  |
| Rated thermal current th |  | A | 100 | 160 | 250 | 400 | 630 |
| Rated frequency |  | Hz | 50/60 |  |  |  |  |
| Rated operating current: alternate current |  |  |  |  |  |  |  |
| AC-21A | 690 V | $V \quad A$ | 100 | 125 | 250 | 400 | - |
| AC-21B | 500 V | $V \quad A$ | 100 | 160 | 250 | 400 | 630 |
| AC-22A | 690 V | $V \quad A$ | 100 | 125 | 250 | 400 | - |
| AC-22B | 690 V | $V \quad A$ | 100 | 125 | 250 | 400 | 630 |
| AC-23A | 415 V | $V \quad A$ | 40 | 160 | 250 | 400 | 630 |
| Rated power dissipation |  | W | 7.5 | 12 | 32 | 45 | 60 |
| Rated short-time short circuit withstand current - Icw (1s) |  | kA | 2.5 | 8 | 15 | 15 | 18 |
| Mechanical durability |  | Number of cycles | 10,000 | 8,000 | 8,000 | 5,000 | 5,000 |
| Electrical durability in AC-22A |  | Number of cycles | 1,500 | 1,000 | 1,000 | 1,000 | 1,000 |
| Ambient temperature |  | ${ }^{\circ} \mathrm{C}$ | -25 up to +55 |  |  |  |  |
| Altitude |  | m | 2,000 |  |  |  |  |
| Connections |  |  |  |  |  |  |  |
| Cable with terminal |  | $\mathrm{mm}^{2}$ | 35 | 120 | 240 | 2x185 | - |
| Busbar |  | $\mathrm{mm}^{2}$ | 15x2 | 25x4 | 2x25x4 | 2x30x5 | 2x40x60 |
| Terminal screw |  |  | M6 | M8 | M10 | M10 | M12 |
| Tightening torque |  | Nm | 7 | 14 | 24 | 24 | 38 |
| Weight |  | kg | 1.05 | 2.0 | 3.65 | 4.2 | 7.5 |



RFW Built-In Auxiliary Contact Block

| Reference code |  | RFW |
| :--- | ---: | :---: |
| Switching capacity | A | 10 A 125 V ac or 250 V ac |
| Rated operating voltage Ue | V | 400 |
| Rated insulation voltage Ui | V | 1,000 |
| Rated frequency | Hz | $50 / 60$ |
| Mechanical durability | Number of cycles | $1,000,000$ |
| Electrical durability | Number of cycles | 100,000 |
| Protection degree of the body | IP | 40 |
| Protection degree of the terminals | IP | 00 |
| Contact cross section | mm | $6.3 \times 0.8$ |
| Ambient temperature | ${ }^{\circ} \mathrm{C}$ | $-40 \ldots+85$ |

Diagram


## Technical Data

RIW Switch-Disconnector

| Reference code |  | RIW100 | RIW160 | RIW250 | RIW400 | RIW630 | RIW1250 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Standards |  | IEC 60947-3 |  |  |  |  |  |
| Rated operating voltage Ue | V | 690 |  |  |  |  |  |
| Rated insulation voltage Ui | V | 1,000 |  |  |  |  |  |
| Rated impulse withstand voltage Uimp | kV | 8 |  |  |  |  |  |
| Rated thermal current Ith | A | 100 | 160 | 250 | 400 | 630 | 1,250 |
| Rated frequency | Hz | $50 / 60$ |  |  |  |  |  |
| Rated operating current: alternate current |  |  |  |  |  |  |  |
| AC-22A | 690 V A | 100 | 125 | 125 | 250 | 400 | - |
| AC-22B | 690 V A | 100 | 160 | 225 | 400 | 630 | - |
| AC-22A | 500 V A | 100 | 160 | 250 | 400 | 630 | 1,250 |
| AC-22B | 415 V A | 100 | 160 | 250 | 400 | 630 | 1,250 |
| Rated short-time short circuit withstand current - Icw (1s) | kA | 2.5 | 8 | 15 | 15 | 18 | 50 |
| Mechanical durability | Number of cycles | 10,000 | 8,000 | 8,000 | 5,000 | 5,000 | 3,000 |
| Electrical durability in AC-22A | Number of cycles | 1,500 | 1,000 | 1,000 | 1,000 | 1,000 | 500 |
| Ambient temperature | ${ }^{\circ} \mathrm{C}$ | -25 up to +55 |  |  |  |  |  |
| Altitude | m | 2,000 |  |  |  |  |  |
| Connections |  |  |  |  |  |  |  |
| Cable with terminal | $\mathrm{mm}^{2}$ | 35 | 120 | 240 | 2x185 | - | - |
| Busbar | $\mathrm{mm}^{2}$ | 15x2 | 25x4 | 2x25x4 | 2x30x5 | 2x40x60 | $60 \times 10$ |
| Terminal screw |  | M6 | M8 | M10 | M10 | M12 | M12 |
| Tightening torque | Nm | 7 | 14 | 24 | 24 | 38 | 38 |
| Weight | kg | 1.05 | 2.0 | 3.65 | 4.2 | 7.5 | 12,5 |



RIW Built-In Auxiliary Contact Block

| Reference code |  | RIW |
| :--- | ---: | :---: |
| Switching capacity | A | 10 A 125 V ac ou 250 V ac |
| Rated operating voltage Ue | V | 400 |
| Rated insulation voltage Ui | V | 1,000 |
| Rated frequency | Hz | $50 / 60$ |
| Mechanical durability | Number of cycles | $1,000,000$ |
| Electrical durability | Number of cycles | 100,000 |
| Protection degree of the body | IP | 40 |
| Protection degree of the terminals | IP | 00 |
| Contact cross section | mm | $6.3 \times 0.8$ |
| Ambient temperature | ${ }^{\circ} \mathrm{C}$ | $-40 \ldots+85$ |

Diagram


## Dimensions (mm)

RFW 100



Version with internal mounted handle


Version with panel door mounted handle

| Dimensions | A | B | C | D | E | F | G | H | I | K | L | M | N | $\mathbf{0}$ | P | R | S | U | X | Y | Z | Ø | W |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RFW 100 | 132 | 110 | 74 | 88 | - | 25 | 95 | 5 | 150 | 16 | 15 | - | 29 | - | 20 | 2 | 50 | 65 | 6.5 | 5.8 | 48 | 8 | - |

RFW 160, RFW 250, RFW 400, RFW 630



RFW 160... 400 Version with internal mounted handle


RFW 630 Version with internal mounted handle

| Dimensions | A | B | C | D | E | F | G | H | 1 | K | L | M | N | 0 | P | R | S | U | X | Y | 2 | $\emptyset$ | W |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RFW 160 | 176 | 132 | 150 | 110 | 84 | 42 | 115 | 5 | 170 | 30 | 20 | 16 | 36 | 51 | 26 | 3.5 | 61 | 95 | 8.5 | 5.8 | 15 | 10 | 20 |
| RFW 250 | 250 | 174 | 189 | 125 | 130 | 65 | 149 | 8 | 225 | 40 | 25 | 20 | 38.5 | 67.5 | 34 | 4 | 86 | 125 | 11 | 7 | 15 | 12 | 25 |
| RFW 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 30 | 5 |  |  |  |  |  |  |  |
| RFW 630 | 300 | 240 | 215 | 170 | 160 | 80 | 200 | 8 | 270 | 45.5 | 40 | 19 | 56.5 | 83 | 40 | 6 | 97 | 145 | 13 | 7 | 20 | 12 |  |


$L$ - Minimum distance between shaft and the hinge of the panel door

| Switch-disconnector | L |
| :---: | :---: |
| RFW100 | 80 |
| RFW160 | 120 |
| RFW250/400/630 | 150 |

## Dimensions (mm)

RIW 100



Version with internal mounted handle


Version with panel door mounted handle

| Dimensions | A | B | C | D | E | F | G | H | I | K | L | M | N | $\mathbf{0}$ | P | R | S | U | X | Y | Z | Ø | W |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RIW 100 | 132 | 110 | 74 | 88 | - | 25 | 95 | 5 | 150 | 16 | 15 | - | 29 | - | 20 | 2 | 50 | 65 | 6.5 | 5.8 | 48 | 8 | - |




## Dimensions (mm)

RIW 160, RIW 250, RIW 400, RIW 630



Version with internal mounted
handle


Version with panel door mounted handle

| Dimensions | A | B | C | D | E | F | G | H | 1 | K | L | M | N | 0 | P | R | S | U | X | Y | Z | $\emptyset$ | W |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RIW 160 | 176 | 132 | 88 | 110 | 84 | 42 | 115 | 5 | 170 | 30 | 20 | 16 | 36 | 51 | 26 | 3 | 61 | 95 | 8.8 | 5.8 | 43 | 10 | 32 |
| RIW 250 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3.5 |  |  |  |  |  |  |  |
| RIW 400 | 250 | 174 | 109 | 125 | 130 | 65 | 149 | 8 | 225 | 40 | 25 | 20 | 38.5 | 67.5 | 34 | 4 | 86 | 125 | 11 | 7 | 47 | 12 | 32 |
| RIW 630 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 30 | 5 |  |  |  |  | 47 |  |  |




## Dimensions (mm)

RIW 1250


Important note:
It is possible to lengthen the switch-disconnectors shafts using the shaft accessory (refer to the accessories page).


L - Minimum distance between shaft and the hinge of the panel door


Hole for handle fixing

| Switch-disconnector | L |
| :---: | :---: |
| RIW100 | 80 |
| RIW160/250 | 120 |
| RIW400/630 | 150 |
| RIW1250 | 200 |

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With more than 30,000 employees worldwide, we are one of the largest electric motors, electronic equipments and systems manufacturers. We are constantly expanding our portfolio of products and services with expertise and market knowledge. We create integrated and customized solutions ranging from innovative products to complete after-sales service.

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- Control relays
- Motor protective circuit breakers up to 100 A
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- Customized starters for OEM applications
- Overload relays


## Electrical Circuit Protection

- Miniature circuit breakers up to 100 A
- Molded case circuit breakers up to 1,600 A (3P and 4P)
- Air circuit breakers up to $6,300 \mathrm{~A}$
- D and NH gL-gG fuses
- Flush end and blade contact NH aR fuses (for semiconductor protection)
- Switch-disconnectors for door or base mounting


## Capacitors

- Power factor compensation
- Lighting
- Motor-run


## Electrical Connections

- Terminal blocks with screw type connection
- Terminal block with spring type connection
- Terminal blocks for fuses
- Busbar and busbar connectors
- Identifiers for terminals and cables
- Printing system


## Pushbuttons and Pilot Lights

- IP66 pushbuttons and pilot lights
- Flush, guarded, extended or mushroom illuminated or non illuminated pushbuttons
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- Emergency pushbuttons (according EN 418)
- Contact blocks with "positive Break" system
- Double pushbutton
- Pilot lights with LED technology
- Customized descriptions
- Decentralized control stations - PBW


## Electronic Relays

- Timing, monitoring, protection and level relays 22.5 mm width frame
- LED for status indication
- Multifunction three-phase monitoring relays and timer relays


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- Full motor protection and monitoring through current and voltage measurements
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- Easy network module change via exclusive drawer system (Modbus, DeviceNet, Profibus modules)
- USB communication
- Free WLP programming software


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For those countries where there is not a WEG own operation, find our local distributor at www.weg.net.


[^0]:    Note: all RIW switch-disconnector include direct frontal handle.

