## Reliable - from experience.



## 

SIEMENS


## SENTRON switch disconnectors:

Full range - full power!

Buildings are becoming increasingly more intelligent, production plants and systems continually more flexible and this means that low-voltage power distribution is truly becoming a "main artery" - as never before. The current to power electric loads must flow reliably, cost-effectively and safely.

So that this really happens, we are offering something quite unique: Products that are harmonized with one another so that your requirements can be mastered easily. This technology has a name: SENTRON - the complete range of devices from 16 A to 6300 A, from well-proven switch disconnectors up to the intelligent circuit-breakers 3VL and 3WL.

Let yourself be inspired.

For every task, every application and every concept. The optimum disconnector.

Take the time and see for yourself.


## 3LD main control and EMERGENCY-STOP switches:

For safe disconnection if the plant must be isolated
from the line supply for a longer period of time. . . . . . . . . Pages 04-05

## 3K switch disconnectors:

Whether with or without fuses - complete
safety and performance in every version up to
the moulded-plastic enclosure with IP65.
Pages 06-09

3NP fuse switch disconnectors:
For $100 \%$ protection against overload and
short-circuit without any residual risk.
Pages 10-11
3NP4 standard series of switch disconnectors -
the universal solution for practically every application from the meter cabinet up to power distribution in large industrial plants and systems.

Pages 10-11
3NP5 compact series of load switch disconnectors -
can also be used when the going gets tough.
Pages 10-11


3NJ fuse in-line switch disconnectors -
the strong combination for switching loads and
isolating with integrated low-voltage HRC fuses.
Pages 12-13
3NJ4 fuse switch disconnectors -
continue to conduct the short-circuit current so that the plant or system can be ramped down in a controlled fashion.

3NJ6 plug-in switch disconnectors with fuses -
the solution also when it comes to manually switching and disconnecting load feeders and cable distribution systems.

## SENTRON switch disconnectors: <br> Well-proven, cost-effective but always up-to-date!

Because SENTRON switch disconnectors can be used to address new requirements. As we continue to develop and innovate well-proven products.

- Because SENTRON switch disconnectors offer many application solutions - with a complete portfolio of products and a seamless range of associated accessories.
Because SENTRON switch disconnectors ensure professional planning and safe operation - the reasons range from the clear, complete documentation up to Siemens' global support.


## Switch disconnectors - the highlights:

$\square$ Wide product rangeExtensive range of accessoriesCan be simply retrofittedFast mounting and installation


## SENTRON main control and EMERGENCY-STOP switches 3LD: <br> Simple. Modular.

When repair or maintenance work is being carried out, the plant or system is disconnected and isolated from the line supply - naturally also when faults occur. Disconnectors that isolate systems from the line supply ensure that the complete electrical equipment can be safely disconnected and isolated.
Main control and EMERGENCY-STOP switches are here to stay - especially in all types of processing machines in the machinery and conveyor system construction, in the chemical and food \& beverage industries. They cover an extremely broad range of applications: They can switch three-phase motors just the same as HVAC systems up to 45 kW .

## Approvals:

EN 60947-3 EN 60204-1 UL LRS


4
4th contact ( $N$ conductor)
N or PE terminal, continuousAuxiliary contact, 1NO
Auxiliary contact, 1NO +1 NC
5 Rotary operating mechanism, redyellow
6 Rotary operating mechanism, black
7 Front plate, German/English
8 Terminal cover, three-pole
9 Terminal cover, single-pole
}

Main control and EMERGENCY-STOP
switches 3LD can be used as switches
for front or base mounting, as switches
in distribution panels and as switches
in moulded-plastic enclosures in
conjunction with rotary door-coupling drive mechanisms.


Technical data: Main control and EMERGENCY-STOP switches 3LD

| Standards |  | IEC 60947, VDE 0660 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Disconnector | Type | 3LD2 0 | 3LD2 1 | 3LD2 2 | 3LD2 5 | 3LD2 7 | 3LD2 8 |
| Number of contacts <br> Rated insulating voltage $\mathbf{U}_{\mathbf{i}}$ <br> Rated operating voltage $U_{e}$ <br> Rated frequency <br> Rated impulse withstand voltage strength $\mathrm{U}_{\mathrm{imp}}$ <br> Rated short-time current strength <br> (1-s current, RMS value) <br> Short-circuit protection, max. back-up fuse (gL) | $\begin{array}{r} \mathrm{V} \\ \mathrm{AC} \mathrm{~V} \\ \mathrm{~Hz} \\ \mathrm{kV} \\ \mathrm{~A} \\ \mathrm{~A} \end{array}$ | $\begin{aligned} & 3 / 4 \\ & 690 \\ & 690 \\ & 50 \ldots 60 \\ & 6 \\ & 340 \\ & 20 \end{aligned}$ | $\begin{aligned} & 3 / 4 \\ & 690 \\ & 690 \\ & 50 \ldots 60 \\ & 6 \\ & 640 \\ & 25 \end{aligned}$ | $\begin{aligned} & 3 / 4 \\ & 690 \\ & 690 \\ & 50 \ldots 60 \\ & 6 \\ & 640 \\ & 50 \end{aligned}$ | $\begin{aligned} & 3 / 4 \\ & 690 \\ & 690 \\ & 50 \ldots 60 \\ & 6 \\ & 1260 \\ & 63 \end{aligned}$ | $\begin{aligned} & 3 / 4 \\ & 690 \\ & 690 \\ & 50 \ldots 60 \\ & 6 \\ & 2000 \\ & 100 \end{aligned}$ | $\begin{aligned} & 3 / 4 \\ & 690 \\ & 690 \\ & 50 \ldots 60 \\ & 6 \\ & 2000 \\ & 125 \end{aligned}$ |
| Rated continuous current $l_{u}$ AC-21A load switch Rated operating current $\mathrm{I}_{\mathrm{e}}$ | A A | $\begin{aligned} & 16 \\ & 16 \end{aligned}$ | $\begin{aligned} & 25 \\ & 25 \end{aligned}$ | $\begin{aligned} & 32 \\ & 32 \end{aligned}$ | $\begin{aligned} & 63 \\ & 63 \end{aligned}$ | $\begin{aligned} & 100 \\ & 100 \end{aligned}$ | $\begin{aligned} & 125 \\ & 125 \end{aligned}$ |
| AC-3 motor switch, individual motors can be operationally switched Rated operating power <br> at 220 V ... 240 V <br> at 380 V ... 440 V <br> at $660 \mathrm{~V} / 690 \mathrm{~V}$ | kW <br> kW <br> kW | $\begin{aligned} & 3.0 \\ & 5.5 \\ & 5.5 \end{aligned}$ | $\begin{aligned} & 4.0 \\ & 7.5 \\ & 7.5 \end{aligned}$ | $\begin{aligned} & 5.5 \\ & 9.5 \\ & 9.5 \end{aligned}$ | $\begin{aligned} & 11.0 \\ & 18.5 \\ & 15.0 \end{aligned}$ | $\begin{aligned} & 18.5 \\ & 30.0 \\ & 22.0 \end{aligned}$ | $\begin{aligned} & 22.0 \\ & 37.0 \\ & 30.0 \end{aligned}$ |
| AC-23A main switch, repair switch individual motors can be frequently switched but not operationally <br> Rated operating power <br> at 220 V ... 240 V <br> at 380 V ... 440 V <br> at $660 \mathrm{~V} / 690 \mathrm{~V}$ | kW <br> kW <br> kW | $\begin{aligned} & 4.0 \\ & 7.5 \\ & 7.5 \end{aligned}$ | $\begin{aligned} & 5.0 \\ & 9.5 \\ & 9.5 \end{aligned}$ | $\begin{aligned} & 6.0 \\ & 11.5 \\ & 11.5 \end{aligned}$ | $\begin{aligned} & 11.0 \\ & 22.0 \\ & 18.5 \end{aligned}$ | $\begin{aligned} & 18.5 \\ & 37.0 \\ & 30.0 \end{aligned}$ | $\begin{aligned} & 22.0 \\ & 45.0 \\ & 37.0 \end{aligned}$ |

# SENTRON <br> switch disconnectors 3KA/3KE: <br> Switching without fuses. 

## The specialists for fuseless disconnection

These switch disconnectors without fuses are used in distribution systems in residential and commercial buildings as well as in industrial switchboards. Switch disconnectors 3KA and 3KE reliably "isolate" and "switch under load" the specified rated current through either three or four phases. This means that they are predestined as main control, EMERGENCY-STOP, repair or line changeover switch - and they guarantee safe isolation in all low-voltage networks.

## Technical data: Switch disconnectors 3KA

| Standards |  | IEC 60947-1, IEC 60947-3, VDE 0660 Part 107 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Disconnector | Type | 3KA50 | 3KA51 | 3KA52 | 3KA53 | 3KA55 | 3KA57 | 3KA58 |
| Rated continuous current lu | A | 63 | 80 | 125 | 160 | 250 | 400 | 630 |

Rated operating voltage $U_{e}$

| $50 \mathrm{~Hz} / 60 \mathrm{~Hz} \mathrm{AC}$ | V | 690 |
| :--- | :--- | :--- |
| DC | V | 440 (3 conducting paths connected in series) |
|  | V | 220 ( 2 conducting paths connected in series) |




Technical data: Switch disconnectors 3KE

| Standards |  | IEC 60947-1, IEC 60947-3, VDE 0660 Part 107 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Disconnector | Type | 3KE42 | 3KE43 | 3KE44 | 3KE45 |
| Rated continuous current $I_{u}$ | A | 250 | 400 | 630 | 1000 |
| Rated operating voltage $U_{e}$ $50 \mathrm{~Hz} / 60 \mathrm{~Hz}$ AC DC | V V | 690 <br> 440 (3 conducting paths connected in series) <br> 220 (2 conducting paths connected in series) |  |  |  |
| Rated short-circuit making capacity at $690 \mathrm{~V} \mathrm{AC} 50 \mathrm{~Hz} / 60 \mathrm{~Hz}$ | kA (peak value) | 35 | 35 | 60 | 60 |
| Rated short-circuit making capacity with upstream fuses at $690 \mathrm{~V} \mathrm{AC} 50 \mathrm{~Hz} / 60 \mathrm{~Hz}$ | kA (peak value) | 105 | 105 | 105 | 84 |
| Rated conditional short-circuit <br> current with upstream fuses <br> at 690 V AC $50 \mathrm{~Hz} / 60 \mathrm{~Hz}$ <br> Switching capacity (feed from either the top or bottom) at 400 V AC | kA (RMS value) | 50 | 50 | 50 | 40 |
| Breaking current $\mathrm{I}_{\mathrm{c}}(\cos \varphi=0.35)$ Rated operating current $\mathrm{l}_{\mathrm{e}}$ at | A (RMS value) | 1000 | 1000 | 2520 | 2520 |
| AC-21A | A | 250 | 440 | 630 | 1000 |
| AC-22A | A | 250 | 330 | 630 | 800 |
| AC-23A <br> at 500 V AC | A (RMS value) | 125 | 125 | 315 | 315 |
| Breaking current $\mathrm{I}_{\mathrm{c}}(\cos \varphi=0.35)$ |  | 1000 | 1000 | 2520 | 2520 |
| Rated operating current le at AC-21A | A | 250 | 400 | 630 | 1000 |
| AC-22A | A | 250 | 330 | 630 | 800 |
| $A C-23 A$ <br> at 690 V AC | A (RMS value) | 125 | 125 | 315 | 315 |
| Breaking current $\mathrm{I}_{\mathrm{c}}(\cos \varphi=0.35)$ |  | 1000 | 1000 | 2520 | 2520 |
| AC-21A | A | 250 | 400 | 630 | 1000 |
| AC-22A | A | 250 | 330 | 630 | 800 |
| AC-23A | A | 125 | 315 | 315 | 315 |
| at 440 V DC ( 3 conducting paths connected in series) Breaking current $\mathrm{I}_{\mathrm{c}}(\mathrm{L} / \mathrm{R}=5 \mathrm{~ms})$ | A | 1000 | 1000 | 2520 | 2520 |
| Rated operating current $\mathrm{l}_{\mathrm{e}}$ at |  |  |  |  |  |
| DC-21A | A | 250 | 400 | 630 | 1000 |
| DC-22A | A | 250 | 250 | 630 | 630 |

# SENTRON <br> switch disconnectors 3KL/3KM: <br> Switching with fuses. 

## Fuse protection against short-circuit and overload

Switch disconnectors 3KL and 3KM have fuses which means that they additionally provide protection against overload and short-circuit. Their ideal application: As main control and EMERGENCY-STOP switch for switchboards, distribution panels and motor feeders.

Switch disconnectors 3 KL and 3 KM can be retrofitted in compliance with IEC or British Standard, as frequency converter protection or for fast mounting onto busbars. When they are equipped with SITOR semiconductor protection fuses, they are even suitable for the highest requirements - e.g. in UPS systems, frequency converters or capacitor control systems.


Rotary door-coupling drive mechanism 8UC6 with automatic tolerance compensation: $\pm 5 \mathrm{~mm}$ in the horizontal and vertical axes: Standard (black) or EMERGENCY-STOP version (red/yellow) - all of the components from the switch to the operating mechanism have a non-interchangeability function.


Technical data: Switch disconnectors 3KL/3KM


# SENTRON <br> fuse switch disconnectors 3NP: Protection against overload and short-circuit. 

Optimally solved: The matching frame and complete TTA type-tested mounting kits are available for the 8HP moulded-plastic distribution system as well as for the various SIKUS distribution cabinets.

When it comes to high requirements, there are no alternatives to our fuse switch disconnector 3NP. The reasons are quite clear: Even high short-circuit currents are safely handled and controlled, competitively priced back-up protection is provided, as well as straightforward selectivity calculations and absolute reliability even when short-circuits occur. The fuse ruptures $100 \%$ this means that there is absolutely no chance of any residual risk because of welded contacts.

There are two 3NP series in the SENTRON family. Both have some common features such as the large, clear window which allows the fuses to be clearly identified. The same goes for the visible isolating gap that is often required for maintenance and service purposes. Additional safety is provided when the optional fusemonitoring function is used.

All of these features mean that the fuse switch disconnector 3NP is a device that fulfills the highest plant and system availability. We do quite a lot to achieve this: From shock and vibration testing up to special earthquake tests - to ensure safe and secure use in marine systems, nuclear power stations and other applications that are critical from a safety perspective.


## Quickly mounted onto all busbars

With our standard 3NP4 series (size NHOOO up to NH3), you have made the optimum choice for the majority of applications - from power distribution in residential and commercial buildings through flexible distribution stations up to power distribution in large industrial plants. Our fuse switch disconnectors 3NP4 also shine when used as main and feed-in switches in industry, control panel building and in motor feeders as well as back-up protection for circuit-breakers. The sealing lug means that the 3NP4 fuse switch disconnectors can be used in meter cabinets and service entry boxes in residential buildings without any restrictions. The same applies for DIN rails, mounting panels, and busbar systems.

## For the highest requirements in tough environments

These really are rugged devices: Our 3NP5 fuse switch disconnectors (sizes NHOO to NH3) also provide reliable protection where switch disconnectors must stand up to a lot. This is especially true in mining, in the steel industry and also in the chemical industry. The 3NP5 series as well as the 3NP40 1 and 3NP40 7 versions are available in a galvanized design for use in environments with a significant amount of sulfur. These switch disconnectors provide the highest degree of safety for the plant and operating personnel when used as main control switches with good AC-23 characteristics - e.g. for motor loads.

Technical data: Fuse switch disconnectors 3NP


## SENTRON <br> fuse switch disconnectors 3NJ: Offer the maximum level of safety with minimum width.

These specialists combine the "load switching" and "isolating" functions in one device. And thanks to the integrated LV HRC fuses, they also provide full protection against overload and short-circuit. They distinguish themselves as a result of the compact design, which allows them to be mounted in the smallest space, and the versatile connection types: Whether horizontal or vertical, whether in low-voltage distribution systems, cable distribution cabinets or sub-stations and transformer stations - everything is possible using this sophisticated, well-proven system. And last but not least, also as a result of the wide range of accessories that fulfills every conceivable requirement.

## Fuse switch disconnectors 3NJ4

These are the SENTRON devices that are responsible for handling occasional manual switching and disconnection of load feeders and power distribution systems.
They are able to make and break the specified rated current. It goes without saying that even under overload and short-circuit conditions they completely fulfill the appropriate plant protection requirements.

Fuse switch disconnectors 3NJ4 are used in

- Power stations and industry as overload and short-circuit protection for switchboards
- Sub-stations and transformer stations as well as cable distribution cabinets
- Main distribution systems in commercial buildings
- Cable outlets and distribution panels

Distribution panels on construction sites and to feed busbar systems

Plug-in switch disconnectors with fuses 3NJ6
These are closely related to our 3NJ4 in-line fuse switch disconnectors; the 3NJ6 series of in-line fuse disconnectors distinguishes itself as a result of the

essential difference - the integrated switching element with single or double interruption.

Mounting and installation are especially easy thanks to the straightforward plug-in system. Our 3NJ6 inline switch disconnectors are also the optimum solution when load feeders and cable distribution systems must be occasionally and manually switched or disconnected.

Plug-in switch disconnectors with fuses 3NJ6 are especially suitable...
$\square$ For cable distribution and electrical cabinets with busbar systems that are on end and vertically arranged - in this case, the plug-in system really comes into its own

- For overload and short-circuit protection for downstream plant components and loads
- To safely disconnect downstream plant components and loads - the switching operation itself is always inside the disconnector assembly independent of the actuation speed.

Technical data: Fuse switch disconnectors 3NJ4

| Standards | IEC 60947-1, IEC 60947-3, DIN VDE 0660 Part 107 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Disconnector Type | 3NJ41 0 | 3NJ41 2 | 3NJ41 3 | 3NJ41 4 | 3NJ41 8 | 3NJ41 5 | 3NJ56 |
| Conventional thermal currents in air $l_{\text {th }}$ <br> in the enclosure $I_{\text {the }}$ | $\begin{aligned} & 160 \\ & 160 \end{aligned}$ | $\begin{aligned} & 250 \\ & 225 \end{aligned}$ | $\begin{aligned} & 400 \\ & 360 \end{aligned}$ | $\begin{aligned} & 630 \\ & 567 \end{aligned}$ | $910$ |  | $1250$ |
| Rated insulating voltage $\mathrm{U}_{\mathrm{i}}$ 源 | 750 | 1000 | 1000 | 1000 | 500 | 1000 | 1000 |
| Rated operating voltage $U_{e}$ AC $40 \ldots 60 \mathrm{~Hz}$ V | 690 | 690 | 690 | 690 | 400 | 690 | 690 |
| Rated conditional short-circuit current with fuses <br> at 690 V AC 40 to $60 \mathrm{~Hz} \quad \mathrm{kA}$ (RMS value) <br> Rated current $\mathrm{In}_{n}$ <br> of the fuses <br> Permissible fuse let-through current <br> (peak value) <br> For fuse links <br> Acc. to IEC 60269-2-1 and isolating links | $\begin{aligned} & 50 \\ & 160 \\ & 15 \\ & 00 / 160 \end{aligned}$ | $\begin{aligned} & 50 \\ & 250 \\ & 28 \\ & 1 / 250 \end{aligned}$ | 50 <br> 400 <br> 39 <br> 1 and 2/250 | 50 <br> 630 <br> 52 <br> 2 and $3 / 400$ <br> and 400 | 50 <br> 910 <br> 53 <br> 3/910 <br> and 630 | - - - - | $\begin{aligned} & 50 \\ & 1250 \\ & 80 \\ & 4 \mathrm{a} / 1250 \end{aligned}$ |
| Rated operating current le at  <br> 400 VAC AC-22B <br> 500 V AC <br> $690-22 B$ A <br> 690 VC AC-21B | $\begin{aligned} & 160 \\ & 160 \\ & 160 \\ & 100 \\ & 160 \end{aligned}$ | $\begin{aligned} & 250 \\ & 250 \\ & 250 \\ & 200 \\ & 250 \end{aligned}$ | $\begin{aligned} & 400 \\ & 400 \\ & 400 \\ & 315 \\ & 400 \end{aligned}$ | $\begin{aligned} & 630 \\ & 630 \\ & 630 \\ & 500 \\ & 630 \end{aligned}$ | $910$ | $\begin{aligned} & 1000 \\ & 1000 \\ & 1000 \\ & 600 \\ & - \end{aligned}$ | $\begin{aligned} & 1250 \\ & 1250 \\ & 1250 \end{aligned}$ |
| Permissible ambient temperature ${ }^{\circ} \mathrm{C}$ | -25 to +5 |  |  |  |  |  |  |
| Mechanical endurance Operating cycles | 1400 | 1400 | 800 | 800 | 800 | 800 | 800 |
| Electrical endurance Operating cycles | 200 | 200 | 200 | 200 | 100 | 100 | 100 |
| Main phase connection <br> Flat busbars <br> Cable lug, max. conductor cross section <br> (multi-conductor) <br> Clamping bar <br> Tightening torque <br> (Cable lug, flat busbar) | $\begin{aligned} & 24 \\ & \\ & 95 \\ & 1.5-70 \\ & 10-15 \end{aligned}$ | $\begin{aligned} & 42 \\ & 240 \\ & 25-300 \\ & 30-35 \end{aligned}$ | $\begin{aligned} & 42 \\ & 240 \\ & 25-300 \\ & 30-35 \end{aligned}$ | $\begin{aligned} & 42 \\ & 240 \\ & 25-300 \\ & 30-35 \end{aligned}$ | $\begin{aligned} & 80 \\ & 2 \times 240 \\ & - \\ & 30-35 \end{aligned}$ | $\begin{aligned} & 80 \\ & 2 \times 240 \\ & - \\ & 30-35 \end{aligned}$ | $\begin{aligned} & 80 \\ & 2 \times 300 \\ & - \\ & 50-60 \end{aligned}$ |

## Technical data: Plug-in switch disconnectors with fuses 3NJ6

| Standards |  | IEC 60947-3 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Disconnector | Type | 3NJ61 10 | 3NJ61 20 | 3NJ61 40 | 3NJ61 60 |
| Rated continuous current lu for fuse links according to DIN 43620 | A | 160 | 250 | 400 | 630 |
| Rated operating voltage $\mathrm{U}_{\mathrm{e}}$ $50 \mathrm{~Hz} / 60 \mathrm{~Hz} \mathrm{AC}$ | V | 690/500 | 690 | 690 | 690 |
| Rated operating voltage $\mathrm{U}_{\mathrm{i}}$ | V | $100\left(\mathrm{U}_{\mathrm{imp}}=8000 \mathrm{~V}\right)$ |  |  |  |
| Rated conditional short-circuit current <br> Short-circuit strength <br> Short-circuit making capacity | kA (RMS value) kA (RMS value) | $\begin{aligned} & 100 \\ & 50 \end{aligned}$ | $\begin{aligned} & 100 \\ & 50 \end{aligned}$ | $\begin{aligned} & 100 \\ & 50 \end{aligned}$ | $\begin{aligned} & 100 \\ & 50 \end{aligned}$ |
| Rated operating current $\mathrm{I}_{\mathrm{e}}$ for single interruption (3NJ61 ...-3E...) |  |  |  |  |  |
| at 500 V AC AC-22B | A | 160 | 250 | 400 | 630 |
| at 690 V AC AC-21B | A | 100 | 250 | 400 | 630 |
| for double interruption (3NJ61 ...-3M...) |  |  |  |  |  |
| at 500 V AC AC-23B | A | 160 | 250 | 400 | 630 |
| at 690 V AC AC-23B | A | 100 | 250 | 400 | 630 |

[^0]
## Ordering by fax +49 (911) 978-3321

## SENTRON

## Would you like more information? Our pleasure!

The simple way to obtain more information and data about Siemens low-voltage power distribution: Please copy this page, complete and fax to +49 (911) 978-3321.
$\square$ Yes, please send me additional information.

## Switching and protecting with

$\square$ SENTRON air circuit-breakers
$\square$ SENTRON moulded-case circuit-breakers
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$\square$ SIVACON power distribution and motor control centersSIVACON busbar distributors
Planning, engineering and managing withSIMARIS designSIMARIS managerTotally Integrated Power

For more detailed information, please contact your local Siemens salesperson.

If you have technical questions, please
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www.siemens.com/lowvoltage/technical-assistance

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The information in this brochure only provides a general description and performance features. For a specific application, this information will not always be applicable in the form described here. This information can also change due to ongoing product development. The required performance features are only binding if they have been expressly agreed upon in the form of a written contract.


[^0]:    Fuse switch disconnectors 3 NJ - the highlights:
    Standard grid dimensions for extremely straightforward engineering

    - High packaging density for distribution systems with several cable outlets
    $\square$ Connection either at the top or bottom
    $\square$ Fast mounting and installation using the clip-on mounting elements at the rear (for sizes 1 to 3 )
    Extended shock hazard protection - safe from touch from the back of the hand when the upper section is removed (degree of protection: IP10)
    Can be locked and sealed against unauthorized operation
    TTA type-tested installation versions in the SIKUS in-line electrical cabinet system
    Wide conductor clamping range using $V$ terminal with pressure contact that can be rotated

