SIRIUS Infeed System.
Convincing advantages of screw and spring-loaded terminals
Flexible and in line with every requirement:

**SIRIUS Infeed System**

Whether screw or spring-loaded terminals, whether circuit-breaker, load feeder or other components: Our SIRIUS infeed system acts as a real all-rounder. Groups of several circuit-breakers (motor starter protectors) – or complete load feeders – can be simply combined and integrated. When it comes to spring-loaded terminals, our modular SIRIUS system includes products, size S00 up to 5.5 kW at 400 V AC. If you prefer controls with classic screw terminals, then circuit-breakers and contactors, sizes S00 and S0 can be used. The SIRIUS infeed system can be used for all motor feeders up to 11 kW. Relays, miniature circuit-breakers or other components can be integrated. This forms the optimum basis for a unified and user-friendly power infeed and distribution system.
Brilliant Concept:  
Design and components

1. **3-phase busbars with infeed**
   A 3-phase busbar with infeed is required to connect the power. This comprises an infeed module including two slots for each circuit-breaker as well as an end cover. Depending on the version, the power is either fed in from the left or right through spring-loaded terminals. The spring-loaded terminals allow cables to be connected using conductors with cross-sections of up to 25 mm² equipped with connector sleeves.

2. **3-phase busbars extend the system**
   The 3-phase busbars to extend the system comprise modules with either two or three slots. The system can be extended as required up to a current carrying capacity of 80 A. An extension plug is supplied with each module.

3. **Expansion connector**
   The 3RV19 17-5BA00 extension plug is used to electrically connect adjacent 3-phase busbars. This means that current carrying capacities of up to 63 A are covered. An extension plug is included with every 3-phase busbar. This means that additional extension plugs are only required as spare parts.

4. **Wider extension plug**
   Just like the conventional solution, the wider 3RV19 17-5E extension plug also reliably establishes the electrical connection between two 3-phase busbars. The electrical characteristics, for instance, the maximum current rating of 63 A, are identical. What’s the difference? When using the wider extension plug, a clearance of 10 mm remains between the connected busbars – thus creating a wiring duct. This can be used to route the control wiring.

Typical structure for load feeders using spring-loaded terminals, size 500:

1. 3-phase busbar with infeed at the left, 3RV19 17-1A
2. 3-phase busbar to extend the system, 3RV19 17-4B
3. Extension plug, 3RV19 17-5BA00
4. Wider extension plug, 3RV19 17-5E
5. End cover, 3RV19 17-6A
6. Connecting plug, 3RV19 17-5AA00
7. Contactor socket, 3RV19 17-7A00
8. Terminal block, 3RV19 17-5D
The connections to the circuit-breaker and contactor can therefore be made from below so that a cable duct above the system is not necessary.

**End cover**
The end cover is used to cover the 3-phase busbars at the open end of the system. This prevents voltage arcing to the control cabinet and this is the reason that only one end cover is required for each system. Every 3-phase busbar with infeed includes an suitable end cover so that additional end covers are only required as spare part.

**Connecting plug**
The connecting plug is used to establish the electrical connection between the 3-phase busbars and the circuit-breaker. There are three versions available:
- For 3RV circuit-breakers, size S00, screw terminals, 3RV19 17-5CA00
- For 3RV circuit-breakers, size S0, screw terminals, 3RV19 17-5AA00
- For 3RV circuit-breakers, size S00, spring-loaded terminals, 3RV19 17-5AA00

**Contactor socket**
Load feeders can be reliably configured in this system using contactor sockets. They are suitable for contactors size S00 with spring-loaded terminals and are simply plugged onto the 3-phase busbars. Direct and reversing starters can be configured. Just one contactor socket is required for direct starters and two contactor sockets for reversing starters. The systems can be flexibly arranged when configuring reversing feeders: either below one another (width: 45 mm) or next to one another (width: 90 mm); whereby in this case it is only possible to mechanically interlock the contactors.

Generally, the infeed system is designed for mounting on a 35 mm mounting rail with a depth of 7.5 mm. The mounting rails guarantee the required stability. When using mounting rails with a depth of 15 mm, then the distance piece located on the contactor socket should be removed and located on the mating piece. The distance piece can be removed when using mounting rails with a depth of 7.5 mm.

As an alternative to using a contactor socket, for direct load feeders, size S00 with spring-loaded terminals, link modules can be used to establish the connection between the circuit-breaker and contactor. These types of combined load feeders can then be directly snapped onto the slots of the 3-phase busbars. Feeders, sizes S00 and S0, are generally implemented with these link modules.

**Terminal blocks and mounting rails**
Using the terminal block, not only can SIRIUS circuit-breakers be integrated but also 1-, 2- or 3-pole components. For instance a SIRIUS relay or miniature circuit-breaker. In this case, the terminal block is located in the slot of the extension plug or in the end cover. This means that an outlet can be provided in the center or at the end of the infeed system. The terminal block can be rotated through 180° and can then be interlocked with the appropriate carrier module.

We also provide a 45 mm mounting rail to simply integrate all 1-, 2- or 3-phase components in the infeed system. This mounting rail is simply screwed onto the carrier module.
**Line- and feeder-orientated structure**

Line-orientated structure: circuit-breaker and contactor are mounted separately from one another.

Feeder-orientated structure: circuit-breaker and contactor are mounted as a single unit.

**Mounting option, wiring duct**

Wiring duct between the modules. Using the wider extension plug, a cable duct of 10 mm can be formed between the modules. The circuit-breakers and contactors can be connected from below so that a cable duct above the system is not necessary.

**Configuring reversing feeders**

Reversing feeder, size S00, 90 mm wide

Reversing feeder, size S00, 45 mm wide

**Versions with terminal block**

The terminal block is located at the end of the system. The cover is required in order to avoid arcing.

The terminal block is integrated in the slot for the extension plug in the middle of the system. The cover cap has been removed, the busbars are jumpered using the lyre-shaped contacts of the terminal block.
## Order quality: Selection and Ordering Data

### Standard components

<table>
<thead>
<tr>
<th>3-phase busbars with infeed</th>
<th>Version</th>
<th>For circuit-breakers size</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-phase busbars with infeed, left incl. end cover 3RV19 17-6A</td>
<td>For 2 switches</td>
<td>S00 (spring-loaded terminals) 1) S00, S0 (screw terminals)</td>
<td>3RV19 17-1A</td>
</tr>
<tr>
<td>3-phase busbars with infeed, right incl. end cover 3RV19 17-6A</td>
<td>For 2 switches</td>
<td>S00 (spring-loaded terminals) 1) S00, S0 (screw terminals)</td>
<td>3RV19 17-1E</td>
</tr>
</tbody>
</table>

### 3-phase busbars to expand the system

| 3-phase busbars incl. 3RV19 17-5BA00 extension plug | For 2 switches | S00 (spring-loaded terminals) 1) S00, S0 (screw terminals) | 3RV19 17-4A |
| For 3 switches | S00 (spring-loaded terminals) 1) S00, S0 (screw terminals) | 3RV19 17-4B |

### Connecting plug

| Connecting plug to establish contact with the circuit-breaker | Single-unit package | S00 (spring-loaded terminals) 1) S00, S0 (screw terminals) | 3RV19 17-5AA00 3RV19 17-5CA00 3RV19 27-5AA00 |
| Multi-unit package | S00 (spring-loaded terminals) 1) S00, S0 (screw terminals) | 3RV19 17-5A 3RV19 17-5C 3RV19 27-5A |

### Accessories

<table>
<thead>
<tr>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contactor socket 3RV19 17-7AA00 3RV19 17-7A</td>
</tr>
<tr>
<td>Terminal block 3RV19 17-5D 3RV19 17-7B</td>
</tr>
<tr>
<td>Wider extension plug 3RV19 17-5E</td>
</tr>
</tbody>
</table>

### Spare parts

<table>
<thead>
<tr>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>End cover 2) 3RV19 17-6A</td>
</tr>
<tr>
<td>Extension plug 3) 3RV19 17-5BA00</td>
</tr>
<tr>
<td>Tool 8WA2 806 8WA2 803</td>
</tr>
</tbody>
</table>

1) Compatible to the following circuit-breakers: 3RV10 11-…2. (size S00, spring-loaded terminals from product version E03)
2) For 3-phase busbars with infeed 3RV19 17-1., the end cover is already included
3) For 3-phase busbars, the extension plug is already included to expand the system 3RV19 17-4
System-orientated and modular: the features

A basis module forms the foundation of the system. This includes a 3-phase busbar with the appropriate infeed. Depending on the version, the infeed with spring-loaded terminal is mounted either at the left or right. This means that a conductor cross-section of 25 mm² can be used to connect power to the system. The basis module always has two slots to integrate a circuit-breaker. A connector is used to establish the electrical connection between the 3-phase busbars and the circuit-breakers. Extension modules in the form of 3-phase busbars are available to expand the system. The individual modules are connected to one another through an extension plug.

The complete system can be snapped onto 35 mm mounting rails according to DIN EN 50022 and can be expanded as required up to a maximum current rating of 63 A. It is especially easy to configure the system and without any additional costs thanks to the straightforward plug-in mounting system. The lateral system infeed reduces the amount of space in the cabinet. The additional height of the infeed system is then only 30 mm. The fact that it is possible to feed-in power at both sides means the highest degree of flexibility when engineering the system. Whether an infeed at the left and outfeed to the right, whether a ring infeed or if additional loads are to be supplied: You have unlimited possibilities. And last but not least, the terminal block and the wide extension plug allow additional design versions.
The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.