

SIEMENS

WORLD CLASS SIRIUS 3RV19 FEEDER SYSTEM

The Problem: one of the most time-consuming parts of motor feeder assembly and maintenance is the provision of a common three-phase feed to several Motor Protection Circuit Breakers (MPCBs). The SIRIUS 3RV19 Feeder System is an extremely fast, convenient and cost-effective means of accomplishing this.

Competing solutions for connecting multiple MPCBs:

1. Point-to-point wiring, potentially with phases "looped through":

Pros: lowest capital cost solution; conditionally convenient during maintenance phase.

Cons: Time consuming during assembly phase; fault ratings must be considered, risk of wiring errors.

2. 3-phase "comb" busbar, with an in-feed terminal block at one end:

Pros: Convenient during assembly phase; considered industry standard solution.

Cons: Time consuming during maintenance phase; entire system must be switched off to exchange/replace a feeder. Typically limited to total 63A current draw.

3. 3-phase "flat bar" systems, with adaptors to mount industrial controls (e.g. from Woehner or Rittal):

Pros: Convenient for maintenance; suitable for higher currents; adaptors not limited to one manufacturer.

Cons: Time consuming to select and assemble; shrouding must be considered; expensive for low kW ratings .

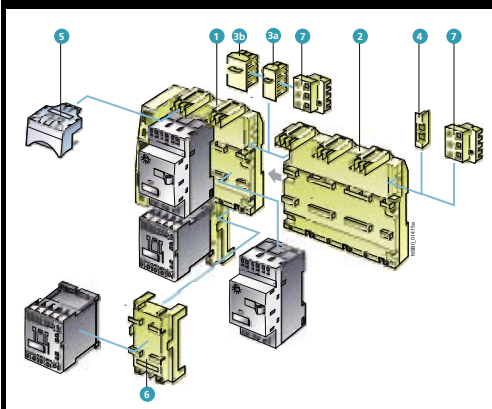
SIRIUS 3RV19 Feeder Systems offer the best solution, bar none...

- Faster to assemble than any other system, e.g. 25% faster to assemble than comb busbars
- Faster and more convenient to maintain than either point-to-point wiring or comb busbars
- Far more cost effective than flat bar systems (by at least 20%) and only ~6% more than comb busbars

System Technology

The Feeder System is based on a simple modular structure. The main incoming phases are connected to an in feed Module, typically on the left but optionally on the right or even both as a 'ring' in feed circuit. The modules have space for two outgoing ways; expansion modules with either two or three ways can simply be plugged into the in feed Module using robust, push-in jumpers. Further expansion modules can be added keeping within the power rating of the system. Standard 3RV10 MPCB's can be clipped onto the back plate just as if they would if mounted directly onto DIN rail. Power is easily and securely brought to the circuit breakers using moulded connectors and the system can cater for standard screw or Cage Clamp terminations. Certain non-proprietary devices, such as miniature circuit breakers, can be fed from the system using the optional terminal block. A DIN rail adapter can also be used to mount such devices and then wire to them point to point.

- Convenient means of power supply and distribution
- Available in the SIRIUS modular system up to 11kW at AC 400V
- Simple plug-in technique
- Saves space in the control cabinet



Item No.	Siemens Part Number
623-7034	1 LHS 3 phase infeed module (S00, S0) for 2 MPCBs 3RV1917-1A
623-7040	1 RHS 3 phase infeed module (S00, S0) for 2 MPCBs 3RV1917-1E
623-7056	2 Expansion module, 2 MPCBs (S00, S0) 3RV1917-4A
623-7078	2 Expansion module, 3 MPCBs (S00, S0) 3RV1917-4B
623-7062	5 Power connector for MPCB (S00, screw) 3RV1917-5CA00
623-7084	5 Power connector for MPCB (S0, screw) 3RV1927-5AA00
623-7107	5 Power connector MPCB (S00, Cage Clamp) 3RV1917-5AA00
623-7090	6 Support base, S00 Contactor (cage clamp) 3RV1917-7AA0
623-7113	7 Terminal Block (Single Phase Module) 3RV1917-5D
623-7129	NA Top-hat rail adaptor 3RV1917-7B
623-7135	3b Terminal Block (Single Phase Module) 3RV1917-5E

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