

# Load Feeders and Motor Starters

## For Use in the Control Cabinet

### Introduction

### Overview



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#### SIRIUS 3RA2 load feeders

- The 3RA2 fuseless load feeders consist of the 3RV2 motor starter protector and the 3RT2 contactor.  
The motor starter protector and contactor are prewired and mechanically and electrically connected in pre-assembled assembly kits (link modules, wiring kits and standard mounting rail or busbar adapters).
- 2 sizes (S00, S0)
- Can be supplied for direct-on-line start or reversing duty as
  - complete unit or
  - single devices for self-assembly
- Can be supplied with screw or spring-type terminals

#### 3RA21 direct-on-line starters for snapping onto standard mounting rails or for screw fixing

- Rated control supply voltage 50/60 Hz 230 V AC and 24 V DC

**3RA21**

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#### 3RA21 direct-on-line starters for 60 mm busbars

- Rated control supply voltage 50/60 Hz 230 V AC and 24 V DC

**3RA21**

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#### 3RA22 reversing starters for snapping onto standard mounting rails or for screw fixing

- Rated control supply voltage 50/60 Hz 230 V AC and 24 V DC

**3RA22**

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#### 3RA22 reversing starters for 60 mm busbars

- Rated control supply voltage 50/60 Hz 230 V AC and 24 V DC

**3RA22**

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#### Accessories for 3RA2 direct-on-line and reversing starters

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#### SIRIUS 3RA1 load feeders

- The 3RA1 fuseless load feeders consist of the 3RV1 motor starter protector and the 3RT1 contactor.  
The motor starter protector and contactor are prewired and mechanically and electrically connected in pre-assembled assembly kits (link modules, wiring kits and standard mounting rail or busbar adapters).
- 2 sizes (S2, S3)
- Can be supplied for direct-on-line start or reversing duty as
  - complete unit or
  - single devices for self-assembly
- Can be supplied with screw terminals

#### 3RA11 direct-on-line starters for snapping onto standard mounting rails or for screw fixing

- Rated control supply voltage 230 V AC, 50 Hz and 24 V DC for 35 mm standard mounting rail or for screw fixing

**3RA1130**

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#### 3RA11 direct-on-line starters for busbar systems

- Rated control supply voltage 230 V AC, 50 Hz and 24 V DC for 40 and 60 mm busbar systems

Only for self-assembly

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#### 3RA12 reversing starters for snapping onto standard mounting rails or for screw fixing

- Rated control supply voltage 230 V AC, 50 Hz and 24 V DC for 35 mm standard mounting rail or for screw fixing

Only for self-assembly

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#### 3RA12 reversing starters for busbar systems

- Rated control supply voltage 230 V AC, 50 Hz and 24 V DC for 40 and 60 mm busbar systems

Only for self-assembly

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#### Accessories for 3RA1 direct-on-line and reversing starters

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### Central and compact starter solutions

Our range offers you many different possibilities for simple and practical starter solutions in the control cabinet. Features common to all our load feeders, compact starters and motor starters: Like all SIRIUS devices they are optimally coordinated with each other, have a very compact design and are particularly easy and quick to install and wire up.

In addition there is a seamless range of SIRIUS 3RW soft starters available for soft starting in the control cabinet [see "Soft Starters and Solid-State Switching Devices" → "SIRIUS 3RW Soft Starters"](#)).

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<b>SIRIUS 3RA6 compact starters</b>			
	<ul style="list-style-type: none"> <li>Integrated functionality of a motor starter protector, contactor and solid-state overload relay and various functions of optional mountable accessories</li> <li>Can be used for direct starting of standard three-phase motors up to 32 A</li> </ul>		
<b>3RA61 direct-on-line starters</b>	Up to 15 kW/400 V, weld-free, wide setting range, removable terminals	<b>3RA61</b>	8/64
<b>3RA62 reversing starters</b>	Up to 15 kW/400 V, weld-free, wide setting range, removable terminals	<b>3RA62</b>	8/65
<b>3RA64 direct-on-line starters for IO-Link</b>	Up to 15 kW/400 V, weld-free, wide setting range, removable terminals	<b>3RA64</b>	8/66
<b>3RA65 reversing starters for IO-Link</b>	Up to 15 kW/400 V, weld-free, wide setting range, removable terminals	<b>3RA65</b>	8/67
<b>Accessories for 3RA6 direct-on-line and reversing starters</b>		<b>3RA69</b>	8/68
<b>Add-on modules for AS-Interface</b>		<b>3RA69</b>	8/74
<b>Infeed systems for 3RA6</b>	Modular expandability, up to 100 A, terminals up to 70 mm <sup>2</sup>	<b>3RA68</b>	8/76
<b>SIRIUS 3RM1 motor starters</b>			
	<ul style="list-style-type: none"> <li>For switching three-phase motors up to 3 kW (at 400 V) and resistive loads up to 10 A at AC voltages up to 500 V under normal operating conditions</li> <li>Space-saving design (22.5 mm wide)</li> </ul>		
<b>3RM10 direct-on-line starters</b>	Direct-on-line starting with solid-state overload protection	<b>3RM10</b>	8/89
<b>3RM12 reversing starters</b>	Reversing functionality with solid-state overload protection	<b>3RM12</b>	8/90
<b>3RM11 Failsafe direct-on-line starters</b>	As 3RM10 plus safety-related shutdown	<b>3RM11</b>	8/91
<b>3RM13 Failsafe reversing starters</b>	As 3RM12 plus safety-related shutdown	<b>3RM13</b>	8/92
<b>Accessories for 3RM1 motor starters</b>	<ul style="list-style-type: none"> <li>3RM19 3-phase infeed system</li> <li>Device connectors, push-in lugs for wall mounting, spare terminals for main and control circuits</li> </ul>	<b>3RM19</b> <b>3ZY1</b>	8/93
<b>ET 200S motor starters and safety motor starters</b>			
<b>ET 200S motor starters</b>	Completely factory-wired motor starters for switching and protecting any AC loads, optionally as direct-on-line, reversing or soft starters		8/98
<ul style="list-style-type: none"> <li>Standard motor starters</li> <li>High-Feature motor starters</li> </ul>		<b>3RK1301</b> <b>3RK1301</b>	8/105 8/108
<b>Power modules for ET 200S motor starters</b>	For infeed and monitoring the auxiliary voltages for motor starters	<b>3RK1903-0BA00</b>	8/111
<b>ET 200S Failsafe motor starters</b>	High-Feature direct-on-line and reversing starters	<b>3RK1301</b>	8/113
<b>Terminal modules for ET 200S motor starters</b>	Mechanical modules in which the motor starter and expansion modules are inserted	<b>3RK1903</b>	
<ul style="list-style-type: none"> <li>Standard terminal modules</li> <li>High-Feature terminal modules</li> <li>Failsafe terminal modules</li> <li>Power module terminal modules</li> <li>Safety modules local and PROFIsafe terminal modules</li> </ul>			8/106 8/110 8/115 8/112 8/125
<b>Safety modules local</b>	For safety category SIL 3/PL e according to IEC 62061 or ISO 13849-1	<b>3RK1903</b>	8/116
<b>Safety modules PROFIsafe</b>	Sensor and actuator assignment are freely configurable (distributed safety concept)	<b>3RK1903</b>	8/116
<b>Accessories</b>			8/127
<b>ET 200S – interface modules</b>	<ul style="list-style-type: none"> <li>Interface modules</li> <li>- With CPU</li> <li>- With fail-safe CPU</li> <li>- Without CPU</li> </ul>	<b>6ES7</b> <b>6AG1</b>	8/132
<b>ET 200S – I/O modules</b>	<ul style="list-style-type: none"> <li>Power modules, reserve modules, potential distributor modules, digital/analog electronic modules</li> <li>Technology modules: SSI modules, 2PULSE pulse generators, 1STEP step modules, positioning modules, counter modules, 1 SI interface modules, SIWAREX CS, SIMAREX CF, terminal modules for power and electronic modules</li> </ul>	<b>6ES7</b> <b>6AG1</b> <b>7MH4</b>	8/140
<b>ET 200S – fail-safe I/O modules</b>	F power and F electronic modules, F terminal modules	<b>6ES7</b> <b>6AG1</b>	8/150
<b>ET 200S – IO-Link master modules</b>	IO-Link 4SI and SIRIUS 4SI electronic modules	<b>6ES7</b> <b>3RK1</b>	8/154