

Combination starter Reversing DIN/panel mount, IEC SIRIUS Frame size S3,45 - 63a 480 VAC control voltage MSP aux-1 SPDT NO/NC Contactor auxiliary -1NO Front mount

<b>product brandname</b>	SIRIUS
<b>Product designation</b>	non-fused motor starter
<b>Design of the product</b>	reversing starter
<b>Manufacturer's article number</b>	
<ul style="list-style-type: none"> <li>• of the supplied contactor</li> </ul>	<a href="#">3RT1044-1AV60</a>
<ul style="list-style-type: none"> <li>• of the supplied circuit-breakers</li> </ul>	<a href="#">3RV1041-4JA15</a>
<ul style="list-style-type: none"> <li>• of the supplied RH assembly kit</li> </ul>	<a href="#">3RA1943-1B</a>
<ul style="list-style-type: none"> <li>• of the supplied busbar adapter</li> </ul>	<a href="#">3RA1942-1AA00</a>
<ul style="list-style-type: none"> <li>• of the supplied link module</li> </ul>	<a href="#">3RA1941-1AA00</a>
<ul style="list-style-type: none"> <li>• of the supplied standard mounting rail adapter</li> </ul>	<a href="#">3RA1942-1AA00</a>

### General technical data

<b>Size of the circuit-breaker</b>	S3
<b>Size of load feeder</b>	S3
<b>Product extension</b>	
<ul style="list-style-type: none"> <li>• Auxiliary switch</li> </ul>	Yes
<b>Insulation voltage</b>	
<ul style="list-style-type: none"> <li>• with degree of pollution 3 rated value</li> </ul>	690 V
<b>Degree of pollution</b>	3
<b>Surge voltage resistance rated value</b>	6 kV
<b>Protection class IP</b>	
<ul style="list-style-type: none"> <li>• on the front</li> </ul>	IP20
<ul style="list-style-type: none"> <li>• of the terminal</li> </ul>	IP00
<b>Shock resistance</b>	
<ul style="list-style-type: none"> <li>• acc. to IEC 60068-2-27</li> </ul>	6g / 11 ms
<b>Mechanical service life (switching cycles)</b>	
<ul style="list-style-type: none"> <li>• of contactor typical</li> </ul>	10 000 000
<b>Type of assignment</b>	2
<b>Protection against electrical shock</b>	finger-safe

### Ambient conditions

<b>Ambient temperature</b>	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-20 ... +60 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-50 ... +80 °C
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-55 ... +80 °C

### Main circuit

<b>Number of poles for main current circuit</b>	3
<b>Design of the switching contact</b>	electromechanical
<b>Adjustable pick-up value current of the current-dependent overload release</b>	45 ... 63 A
<b>Operating voltage</b>	
• rated value	690 V
• at AC-3 rated value maximum	690 V
<b>Operating frequency rated value</b>	60 ... 60 Hz
<b>Operating current</b>	
• at AC-3	
— at 400 V rated value	55 A
<b>Operating power</b>	
• at AC-3	
— at 400 V rated value	30 000 W
— at 500 V rated value	37 000 W

### Control circuit/ Control

<b>Control supply voltage at AC</b>	
• at 50 Hz rated value	480 V
• at 50 Hz rated value	384 ... 528 V
• at 60 Hz rated value	480 V
• at 60 Hz rated value	384 ... 528 V
<b>Apparent holding power of magnet coil at AC</b>	20 V·A
<b>Inductive power factor with the holding power of the coil</b>	0.28

### Auxiliary circuit

<b>Number of NC contacts</b>	
• for auxiliary contacts	1
<b>Number of NO contacts</b>	
• for auxiliary contacts	1

### Protective and monitoring functions

<b>Trip class</b>	CLASS 10
<b>Design of the overload release</b>	thermal (bimetallic)
<b>Response value current</b>	
• of instantaneous short-circuit trip unit	819 A

### UL/CSA ratings

<b>Full-load current (FLA) for three-phase AC motor</b>	
• at 480 V rated value	63 A
• at 600 V rated value	61.5 A
<b>Yielded mechanical performance [hp]</b>	
• for single-phase AC motor	
— at 110/120 V rated value	5 hp

— at 230 V rated value	15 hp
• for three-phase AC motor	
— at 200/208 V rated value	20 hp
— at 220/230 V rated value	25 hp
— at 460/480 V rated value	50 hp
— at 575/600 V rated value	60 hp

### Short-circuit protection

<b>Product function Short circuit protection</b>	Yes
<b>Design of the short-circuit trip</b>	magnetic
<b>Conditional short-circuit current (I<sub>q</sub>)</b>	
• at 400 V acc. to IEC 60947-4-1 rated value	50 000 A
• at 500 V acc. to IEC 60947-4-1 rated value	50 000 A

### Installation/ mounting/ dimensions

<b>Mounting position</b>	vertical
<b>Mounting type</b>	snap-on fastening on 35 mm standard rail
<b>Height</b>	330 mm
<b>Width</b>	150 mm
<b>Depth</b>	207 mm
<b>Required spacing</b>	
• for grounded parts	
— forwards	10 mm
— Backwards	0 mm
— upwards	90 mm
— at the side	12 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— Backwards	0 mm
— upwards	90 mm
— downwards	10 mm
— at the side	12 mm

### Connections/Terminals

<b>Type of electrical connection</b>	
• for main current circuit	screw-type terminals
<b>Type of connectable conductor cross-sections</b>	
• for main contacts	
— stranded	2.5 ... 70 mm <sup>2</sup> , 2x (10 ... 50 mm <sup>2</sup> )
• at AWG conductors for main contacts	1x (10 ... 2/0), 2x (10 ... 1/0)
<b>Connectable conductor cross-section for main contacts</b>	
• finely stranded with core end processing	2.5 ... 50 mm <sup>2</sup>

## Safety related data

### B10 value

- with high demand rate acc. to SN 31920 1 000 000

### Proportion of dangerous failures

- with high demand rate acc. to SN 31920 73 %

## Certificates/approvals

General Product Approval	For use in hazardous locations	Declaration of Conformity	Shipping Approval
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UL



ATEX



IECEX



EG-Konf.



GL

Shipping Approval	other
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RINA



RMRS

[Umweltbestätigung](#)

[Bestätigungen](#)

## Further information

### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA1245-4JB44-1AV6>

### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA1245-4JB44-1AV6>

### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RA1245-4JB44-1AV6>

### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA1245-4JB44-1AV6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA1245-4JB44-1AV6&lang=en)

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