

Combination Starter Non Reversing Fast Bus FLA Range 35-45A 3 Pole 120VAC  
Coil S2 Open Type 1NO (>&<) 1NC Aux

product brand name	SIRIUS
product designation	non-fused motor starter 3RA2
design of the product	direct starter
manufacturer's article number	
• of the supplied contactor	<a href="#">3RT2036-1AK60</a>
• of the supplied circuit-breakers	<a href="#">3RV2031-4VA15</a>
• of the supplied busbar adapter	<a href="#">8US1261-6MT10</a>
• of the supplied link module	<a href="#">3RA2931-1AA00</a>
<b>General technical data</b>	
size of the circuit-breaker	S2
size of load feeder	S2
product extension auxiliary switch	Yes
insulation voltage with degree of pollution 3 at AC rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	6g / 11 ms
mechanical service life (operating cycles) of contactor typical	10 000 000
type of assignment	2
Weight	2.77 kg
<b>Ambient conditions</b>	
ambient temperature	
• during operation	-20 ... +60 °C
• during storage	-50 ... +80 °C
• during transport	-55 ... +80 °C
<b>Main circuit</b>	
number of poles for main current circuit	3
design of the switching contact	electromechanical
adjustable current response value current of the current-dependent overload release	35 ... 45 A
operating voltage	
• rated value	690 V
• at AC-3 rated value maximum	690 V
operating frequency rated value	50 ... 60 Hz
operational current at AC-3 at 400 V rated value	41 A
operating power at AC-3	
• at 400 V rated value	22 000 W
<b>Control circuit/ Control</b>	
control supply voltage at AC	
• at 50 Hz rated value	110 V
• at 50 Hz rated value	88 ... 121 V
• at 60 Hz rated value	120 V
• at 60 Hz rated value	96 ... 132 V
apparent holding power of magnet coil at AC	16 VA
inductive power factor with the holding power of the coil	0.37
<b>Auxiliary circuit</b>	
number of NC contacts for auxiliary contacts	2
number of NO contacts for auxiliary contacts	2
<b>Protective and monitoring functions</b>	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	585 A

UL/CSA ratings	
yielded mechanical performance [hp]	
<ul style="list-style-type: none"> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> </ul>	3 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (I <sub>q</sub> )	
<ul style="list-style-type: none"> <li>at 400 V according to IEC 60947-4-1 rated value</li> </ul>	100 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method	for snapping onto 60 mm busbar systems
height	350 mm
width	55 mm
depth	208 mm
required spacing	
<ul style="list-style-type: none"> <li>for grounded parts</li> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> <li>for live parts</li> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul>	0 mm 6 mm 50 mm 10 mm 10 mm  0 mm 6 mm 50 mm 10 mm 10 mm
Connections/ Terminals	
type of electrical connection for main current circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts stranded	1 ... 35 mm <sup>2</sup> , 2x (1 ... 16 mm <sup>2</sup> )
connectable conductor cross-section for main contacts finely stranded with core end processing	1 ... 25 mm <sup>2</sup>
Safety related data	
proportion of dangerous failures with high demand rate according to SN 31920	73 %
<b>B10 value with high demand rate according to SN 31920</b>	1 000 000
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	
General Product Approval	For use in hazard-ous locations



[Confirmation](#)



#### Test Certificates

#### Marine / Shipping

[Special Test Certificate](#)



#### Marine / Shipping

#### other

#### Railway

#### Dangerous goods

#### Environment

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#### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2135-4VD36-0AK6>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2135-4VD36-0AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2135-4VD36-0AK6>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2135-4VD36-0AK6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2135-4VD36-0AK6&lang=en)

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2135-4VD36-0AK6/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2135-4VD36-0AK6&objecttype=14&gridview=view1>

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