

COMBO NONREV STR PNL MTD S3 57- COMBO NONREV STR PNL MTD S3 57-

<b>product brand name</b>	SIRIUS
<b>product designation</b>	non-fused motor starter 3RA2
<b>design of the product</b>	direct starter
<b>manufacturer's article number</b>	
<ul style="list-style-type: none"> <li>• of the supplied contactor</li> <li>• of the supplied circuit-breakers</li> <li>• of the supplied link module</li> </ul>	<a href="#">3RT2046-1AK60</a> <a href="#">3RV2041-4KA10</a> <a href="#">3RA2942-1AA00</a>
<b>General technical data</b>	
<b>size of the circuit-breaker</b>	S3
<b>size of load feeder</b>	S3
product extension auxiliary switch	Yes
insulation voltage with degree of pollution 3 at AC rated value	690 V
<b>degree of pollution</b>	3
<b>surge voltage resistance rated value</b>	6 kV
<b>shock resistance according to IEC 60068-2-27</b>	6.7 g / 5 ms
mechanical service life (operating cycles) of contactor typical	10 000 000
<b>type of coordination</b>	2
<b>Net Weight</b>	4.56 kg
<b>Ambient conditions</b>	
<b>ambient temperature</b>	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>	-20 ... +60 °C -50 ... +80 °C -55 ... +80 °C
<b>Main circuit</b>	
<b>number of poles for main current circuit</b>	3
<b>design of the switching contact</b>	electromechanical
<b>adjustable current response value current of the current-dependent overload release</b>	57 ... 75 A
<b>operating voltage</b>	
<ul style="list-style-type: none"> <li>• rated value</li> <li>• at AC-3 rated value maximum</li> </ul>	690 V 690 V
<b>operating frequency rated value</b>	50 ... 60 Hz
operational current at AC-3 at 400 V rated value	75 A
operating power at AC-3	
<ul style="list-style-type: none"> <li>• at 400 V rated value</li> </ul>	37 kW
<b>Control circuit/ Control</b>	
<b>control supply voltage at AC</b>	
<ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> <li>• at 50 Hz rated value</li> <li>• at 60 Hz rated value</li> <li>• at 60 Hz rated value</li> </ul>	110 V 88 ... 121 V 120 V 96 ... 132 V
<b>apparent holding power of magnet coil at AC</b>	22 VA
<b>inductive power factor with the holding power of the coil</b>	0.4
<b>Auxiliary circuit</b>	
<b>number of NC contacts for auxiliary contacts</b>	1
<b>number of NO contacts for auxiliary contacts</b>	1
<b>Protective and monitoring functions</b>	
<b>trip class</b>	CLASS 10
<b>design of the overload release</b>	thermal (bimetallic)

response value current of instantaneous short-circuit trip unit	975 A	
<b>UL/CSA ratings</b>		
<b>full-load current (FLA) for 3-phase AC motor</b>		
• at 480 V rated value	75 A	
• at 600 V rated value	75 A	
<b>yielded mechanical performance [hp]</b>		
• for single-phase AC motor		
— at 110/120 V rated value	10 hp	
— at 230 V rated value	20 hp	
• for 3-phase AC motor		
— at 200/208 V rated value	30 hp	
— at 220/230 V rated value	30 hp	
— at 460/480 V rated value	75 hp	
— at 575/600 V rated value	75 hp	
<b>Short-circuit protection</b>		
<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 according to IEC 60947-4-1 rated value	65 000 A	
<b>Installation/ mounting/ dimensions</b>		
<b>mounting position</b>	vertical	
<b>fastening method</b>	Snap-mounted to DIN rail or screw-mounted with additional push-in lug	
<b>height</b>	332 mm	
<b>width</b>	70 mm	
<b>depth</b>	200 mm	
<b>required spacing</b>		
• for grounded parts		
— forwards	32 mm	
— backwards	0 mm	
— upwards	50 mm	
— at the side	10 mm	
— downwards	10 mm	
• for live parts		
— forwards	32 mm	
— backwards	0 mm	
— upwards	50 mm	
— downwards	10 mm	
— at the side	10 mm	
<b>Connections/ Terminals</b>		
type of electrical connection for main current circuit	screw-type terminals	
type of connectable conductor cross-sections for main contacts stranded	10 ... 70 mm <sup>2</sup> , 2x (2.5 ... 50 mm <sup>2</sup> )	
connectable conductor cross-section for main contacts finely stranded with core end processing	1 ... 35 mm <sup>2</sup>	
<b>Safety related data</b>		
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	
<b>Electrical Safety</b>		
<b>protection class IP on the front according to IEC 60529</b>	IP20	
<b>touch protection on the front according to IEC 60529</b>	finger-safe, for vertical contact from the front	
<b>Approvals Certificates</b>		
Environment	General Product Approval	For use in hazardous locations

[Environmental Conformations](#)



[Confirmation](#)[Confirmation](#)[Transport Information](#)

## Further information

## Information on the packaging

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

## Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

## 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=3RA2140-4KB46-0AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2140-4KB46-0AK6>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2140-4KB46-0AK6&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2140-4KB46-0AK6&lang=en)

## Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2140-4KB46-0AK6>

## Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)

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