






COMBO NR STR PNL MTD S3 57-75A COMBO NR STR PNL MTD S3 57-75A	
product brand name	SIRIUS
product designation	non-fused motor starter 3RA2
design of the product	direct starter
manufacturer's article number	
<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>	3RT2140-460NB3 <a href="#">3RV2041-4KA10</a> <a href="#">3RA2942-1AA00</a>
<b>General technical data</b>	
size of the circuit-breaker	S3
size of load feeder	S3
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	6.7 g / 5 ms
mechanical service life (operating cycles) of contactor typical	10 000 000
type of coordination	2
Net Weight	4.67 kg
<b>Ambient conditions</b>	
ambient temperature	
<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>	
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	57 ... 75 A
operating voltage	
<ul style="list-style-type: none"> <li>rated value</li> <li>at AC-3 rated value maximum</li> </ul>	690 V 690 V
operating frequency rated value	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>	
control supply voltage at AC	
<ul style="list-style-type: none"> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul>	20 ... 33 V 20 ... 33 V
control supply voltage at DC rated value	20 ... 33 V
apparent holding power of magnet coil at AC	3.5 VA
holding power of magnet coil at DC	2.7 W
<b>Auxiliary circuit</b>	
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
<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	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 (Iq)</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>		
<b>Environment</b>	<b>General Product Approval</b>	<b>For use in hazardous locations</b>
<a href="#">Environmental Confirmations</a>	    	
<b>Maritime application</b>		other



[Confirmation](#)

other

[Confirmation](#)



#### 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=3RA2140-4KB46-0NB3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2140-4KB46-0NB3>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2140-4KB46-0NB3&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2140-4KB46-0NB3&lang=en)

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2140-4KB46-0NB3>

Characteristic curves

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

last modified:

4/4/2026