## **SIEMENS**

Data sheet 3RW4076-6BB44



SIRIUS soft starter S12 432 A, 250 kW/400 V, 40 °C 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5076-6AB14<<

General technical data				
product brand name		SIRIUS		
product designation		Soft starter		
product feature				
<ul> <li>integrated bypass contact system</li> </ul>		Yes		
• thyristors		Yes		
product function				
<ul> <li>intrinsic device protection</li> </ul>		Yes		
<ul> <li>motor overload protection</li> </ul>		Yes		
<ul> <li>evaluation of thermistor motor protection</li> </ul>		No		
external reset		Yes		
<ul> <li>adjustable current limitation</li> </ul>		Yes		
• inside-delta circuit		No		
product component motor brake output		No		
insulation voltage rated value	V	600		
degree of pollution		3, acc. to IEC 60947-4-2		
reference code according to EN 61346-2		Q		
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G		
Power Electronics				
operational current				
<ul> <li>at 40 °C rated value</li> </ul>	Α	432		
<ul> <li>at 50 °C rated value</li> </ul>	Α	385		
at 60 °C rated value	Α	335		
yielded mechanical performance for 3-phase motors				
• at 230 V				
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	132		
• at 400 V				
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	kW	250		
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	125		
operating frequency rated value	Hz	50 60		
relative negative tolerance of the operating frequency	%	-10		
relative positive tolerance of the operating frequency	%	10		
operating voltage at standard circuit rated value	V	200 460		
relative negative tolerance of the operating voltage at standard circuit	%	-15		
relative positive tolerance of the operating voltage at standard circuit	%	10		
minimum load [%]	%	20		
adjustable motor current for motor overload protection minimum rated value	А	207		

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continuous operating current [% of le] at 40 °C	%	115		
power loss [W] at operational current at 40 °C during operation typical	W	165		
Control circuit/ Control				
type of voltage of the control supply voltage		AC		
control supply voltage frequency 1 rated value	Hz	50		
control supply voltage frequency 2 rated value	Hz	60		
relative negative tolerance of the control supply voltage frequency	%	-10		
relative positive tolerance of the control supply voltage frequency	%	10		
control supply voltage 1 at AC				
at 50 Hz rated value	V	230		
at 60 Hz rated value	V	230		
relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-15		
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	10		
relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-15		
relative positive tolerance of the control supply voltage at AC at 60 Hz	%	10		
display version for fault signal		red		
Mechanical data				
size of engine control device		S12		
width	mm	160		
height	mm	230		
depth	mm	278		
fastening method		screw fixing		
mounting position		With additional fan: With vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° t		
required spacing with side-by-side mounting				
• upwards	mm	100		
• at the side	mm	5		
downwards	mm	75		
wire length maximum	m	300		
number of poles for main current circuit		3		
Connections/ Terminals				
type of electrical connection				
for main current circuit		busbar connection		
for auxiliary and control circuit		screw-type terminals		
number of NC contacts for auxiliary contacts		0		
number of NO contacts for auxiliary contacts		2		
number of CO contacts for auxiliary contacts		1		
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point				
<ul> <li>finely stranded with core end processing</li> </ul>		70 240 mm²		
<ul><li>finely stranded without core end processing</li><li>stranded</li></ul>		70 240 mm <sup>2</sup> 95 300 mm <sup>2</sup>		
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point				
finely stranded with core end processing		120 185 mm²		
<ul> <li>finely stranded without core end processing</li> </ul>		120 185 mm²		
• stranded		120 240 mm²		
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points				
<ul> <li>finely stranded with core end processing</li> </ul>		min. 2x 50 mm², max. 2x 185 mm²		
finely stranded without core end processing		min. 2x 50 mm², max. 2x 185 mm²		
• stranded		max. 2x 70 mm², max. 2x 240 mm²		
type of connectable conductor cross-sections for AWG				
cables for main contacts for box terminal				
		250 500 kcmil		

<ul> <li>using both clamping points</li> </ul>		min 2v 2/0 may 2v 500 kcmil		
type of connectable conductor cross-sections for DIN cable	-	min. 2x 2/0, max. 2x 500 kcmil		
lug for main contacts				
<ul><li>finely stranded</li></ul>		50 240 mm²		
• stranded		70 240 mm²		
type of connectable conductor cross-sections for auxiliary contacts				
• solid		2x (0.5 2.5 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²)		
type of connectable conductor cross-sections for AWG cables				
<ul> <li>for main contacts</li> </ul>		2/0 500 kcmil		
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)		
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		2x (20 16)		
Ambient conditions				
installation altitude at height above sea level	m	5 000		
environmental category				
<ul> <li>during transport according to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
during storage according to IEC 60721		1K6 (only occasional condensation), 1C2 (sand must not get inside the devices), 1		
<ul> <li>during operation according to IEC 60721</li> </ul>		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
ambient temperature				
during operation	°C	-25 +60		
during storage	°C	-40 +80		
derating temperature	°C	40		
protection class IP on the front according to IEC 60529		IP00; IP20 with cover		
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front with cover		
UL/CSA ratings				
yielded mechanical performance [hp] for 3-phase AC motor				
• at 220/230 V				
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	150		
• at 460/480 V				
— at standard circuit at 50 °C rated value	hp	300		
contact rating of auxiliary contacts according to UL		B300 / R300		
Approvals Certificates				
General Product Approval			EMV	





Confirmation







EMV For use in hazardous locations Test Certificates Marine / Shipping other

<u>KC</u>



Special Test Certificate





Confirmation

Environment



Environmental Confirmations

Further information

Simulation Tool for Soft Starters (STS)
https://support.industry.siemens.com/cs/ww/en/view/101494917
Information on the packaging

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

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

https://www.siemens.com/ic10

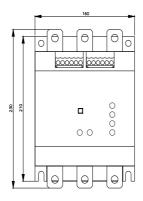
Industry Mall (Online ordering system)
<a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4076-6BB44">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4076-6BB44</a>

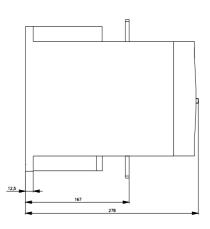
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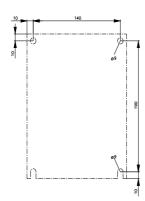
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4076-6BB44

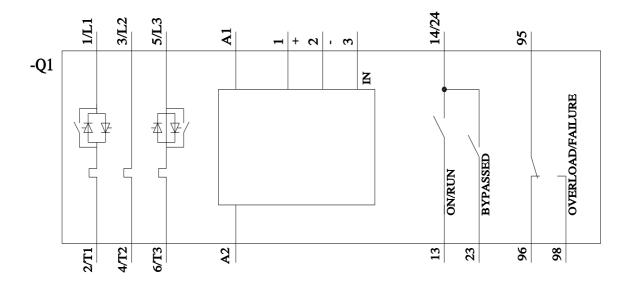
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4076-6BB44&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4076-6BB44&lang=en</a>









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