## **SIEMENS**

Data sheet 3RW4073-6BB44



SIRIUS soft starter S12 230 A, 132 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 >>3RW5073-6AB14<<

General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
<ul><li>thyristors</li></ul>		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
<ul> <li>external reset</li> </ul>		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 acc. to DIN EN 61346-2		Q
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
<ul> <li>at 40 °C rated value</li> </ul>	Α	230
<ul> <li>at 50 °C rated value</li> </ul>	Α	205
at 60 °C rated value	Α	180
yielded mechanical performance for 3-phase motors  ● at 230 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	W	75 000
• at 400 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	W	132 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	60
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 continuous operating current [% of leg at 40 °C w/s 115 control supply of appraisance and the control supply voltage operation typical current at 40 °C during operation typical voltage for current at 40 °C during operation typical voltage of the control supply voltage frequency 1 rated value by the control supply voltage frequency 1 rated value by the control supply voltage frequency 2 rated value by voltage frequency 3 for the control supply voltage frequency 4 for control supply voltage frequency 4 for control supply voltage frequency 4 for control supply voltage frequency 5 for the control supply voltage frequency 6 for control supply voltage frequency 6 for control supply voltage frequency 6 for control supply voltage at 26 for 26 for control supply 5 for control supply 5 for control supply 5 for control supply 6 for control supply 6 for control supply 7 for control sup			
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voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz display version for fault signal  Mechanical data  size of engine control device width mm 160 helght mm 230 depth mm 238 fastening method mounting position  with additional fan: With vertical mounting surface +/-90° rolatable, with vertical mounting surface +/-90° rolatable, with vertical mounting surface +/-22.5° filtable to the front and back Without additional fan: With vertical mounting surface +/-10° rolatable, with vertic		%	10
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Size of engline control device   S12		%	10
size of engine control device width	display version for fault signal		red
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■ downwards     wire length maximum     number of poles for main current circuit      Connections/ Terminals      type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • for ouxiliary and control circuit         • for ouxiliary and control circuit         • for ouxiliary and control circuit         • for outlest for auxiliary contacts         • number of NC contacts for auxiliary contacts         • 1         • type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point         • finely stranded with core end processing         • stranded         • stranded         • finely stranded with core end processing         • finely stranded without core end processing         • finely stranded without core end processing         • stranded         • stranded         • stranded         • stranded         • stranded         • stranded conductor cross-sections for	• upwards	mm	100
wire length maximum     m     300       number of poles for main current circuit     3       Connections/ Terminals       type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>screw-type terminals</li> </ul> number of NC contacts for auxiliary contacts     0       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     1       finely stranded with core end processing     70 240 mm²       finely stranded without core end processing     70 240 mm²       stranded     95 300 mm²       type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point     120 185 mm²       finely stranded with core end processing     120 185 mm²       finely stranded without core end processing     120 185 mm²       finely stranded without core end processing     120 185 mm²       stranded     120 240 mm²	• at the side	mm	5
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type of electrical connection  • for main current circuit  • for auxiliary and control circuit  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  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  • finely stranded without core end processing  • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  • finely stranded with core end processing  • finely stranded without core end processing  • finely connectable conductor cross-sections for  2  120 185 mm²  120 185 mm²  120 240 mm²  120 240 mm²	number of poles for main current circuit		3
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stranded      type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point      • finely stranded with core end processing     • finely stranded without core end processing     • stranded      type of connectable conductor cross-sections for  95 300 mm²  120 185 mm²  120 185 mm²  120 185 mm²  120 240 mm²			
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  • finely stranded with core end processing • finely stranded without core end processing • stranded  • stranded  type of connectable conductor cross-sections for	<ul> <li>finely stranded without core end processing</li> </ul>		70 240 mm²
main contacts for box terminal using the back clamping point  • finely stranded with core end processing • finely stranded without core end processing • stranded  • stranded  type of connectable conductor cross-sections for	stranded		95 300 mm²
<ul> <li>finely stranded without core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for</li> </ul>	main contacts for box terminal using the back		
● stranded 120 240 mm² type of connectable conductor cross-sections for	<ul> <li>finely stranded with core end processing</li> </ul>		120 185 mm²
main contacts for box terminal using both clamping points	type of connectable conductor cross-sections for main contacts for box terminal using both clamping		

<ul> <li>finely stranded with core end processing</li> </ul>		min. 2x 50 mm², max. 2x 185 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		min. 2x 50 mm², max. 2x 185 mm²
• stranded		max. 2x 70 mm², max. 2x 240 mm²
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal		
<ul> <li>using the back clamping point</li> </ul>		250 500 kcmil
<ul> <li>using the front clamping point</li> </ul>		3/0 600 kcmil
using both clamping points		min. 2x 2/0, max. 2x 500 kcmil
type of connectable conductor cross-sections for DIN cable 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 at 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 acc. to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
<ul> <li>during storage acc. to IEC 60721</li> </ul>		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during operation acc. 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 acc. to IEC 60529		IP00; IP20 with cover
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front with cover
Certificates/ approvals		

**General Product Approval** 

EMC

For use in hazardous locations













Declaration of Conformity

**Test Certificates** 

Marine / Shipping

other



Special Test Certificate



DNV-GL DNV-GL Confirmation

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	75
• at 460/480 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	150

## Further information

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

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=3RW4073-6BB44

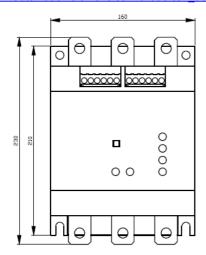
Cax online generator

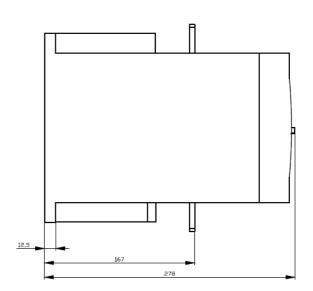
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4073-6BB44

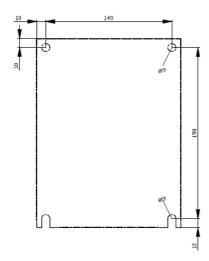
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

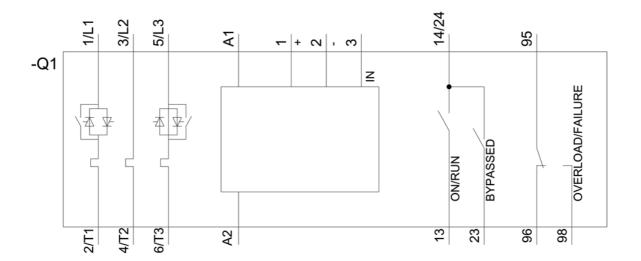
https://support.industry.siemens.com/cs/ww/en/ps/3RW4073-6BB44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3RW4073-6BB44&lang=en









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