## **SIEMENS**

Data sheet 3RW4075-2BB35



SIRIUS soft starter S12 315 A, 300 hp/575 V, 50 °C 400-600 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5075-2AB15<<

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	356
<ul> <li>at 50 °C rated value</li> </ul>	Α	315
at 60 °C rated value	Α	280
yielded mechanical performance for 3-phase motors		
● at 400 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	W	200 000
● at 500 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	W	250 000
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	400 600
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	131	
continuous operating current [% of le] at 40 °C	%	115	
power loss [W] at operational current at 40 °C during operation typical	W	125	
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	- %	-10	
voltage frequency	_		
relative positive tolerance of the control supply voltage frequency	%	10	
control supply voltage 1 at AC			
<ul> <li>at 50 Hz rated value</li> </ul>	V	115	
at 60 Hz rated value	V	115	
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		spring-loaded 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			
finely stranded with core end processing		70 240 mm²	
<ul><li>finely stranded without core end processing</li><li>stranded</li></ul>		70 240 mm² 95 300 mm²	
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point			
<ul> <li>finely stranded with core end processing</li> </ul>		120 185 mm²	
finely stranded without core end processing		120 185 mm²	
• stranded		120 240 mm²	
type of connectable conductor cross-sections for			

main contacts for box terminal using both clamping points					
finely stranded with core end processing		min. 2x 50 mm², max. 2x 185 mm²			
finely stranded with core end processing     finely stranded without core end processing		min. 2x 50 mm², max. 2x 165 mm²			
stranded     stranded		max. 2x 70 mm², max. 2x 240 mm²			
type of connectable conductor cross-sections at AWG		111dx. 2x 70 111111 , 111dx. 2x 240 111111			
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			
<ul> <li>using both clamping points</li> </ul>		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			
<ul><li>stranded</li></ul>		70 240 mm²			
type of connectable conductor cross-sections for auxiliary contacts					
• solid		2x (0.25 1.5 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.25 1.5 mm²)			
type of connectable conductor cross-sections at AWG cables					
for main contacts		2/0 500 kcmil			
<ul> <li>for auxiliary contacts</li> </ul>		2x (24 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 (	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
• during storage acc. to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4			
• during operation acc. to IEC 60721		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					
			For use in hazar		
		EMO	. J. GOO III IIGZGI		

**General Product Approval** 

EMC

For use in hazardous locations













**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping

other

Miscellaneous



Special Test Certificate





Confirmation

OL/COA fathigs
yielded mechanical performance [hp] for 3-phase AC motor

• at 460/480 V

III /CCA retings

— at standard circuit at 50 °C rated value

• at 575/600 V

hp 250

hp

300

B300 / R300

## **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=3RW4075-2BB35

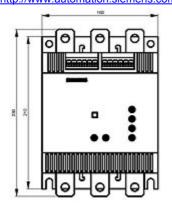
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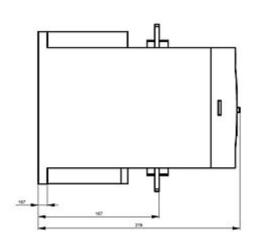
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4075-2BB35

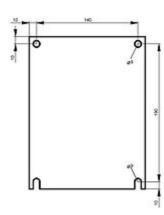
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$ 

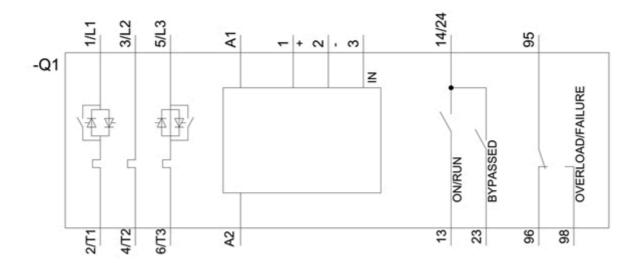
https://support.industry.siemens.com/cs/ww/en/ps/3RW4075-2BB35

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=3RW4075-2BB35&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4075-2BB35&lang=en</a>









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