## **SIEMENS**

Data sheet 3RW4076-2BB35



SIRIUS soft starter S12 385 A, 400 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 >>3RW5076-2AB15<<

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	432			
<ul> <li>at 50 °C rated value</li> </ul>	Α	385			
<ul> <li>at 60 °C rated value</li> </ul>	Α	335			
yielded mechanical performance for 3-phase motors					
• at 400 V					
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	W	250 000			
• at 500 V					
— at standard circuit at 40 °C rated value	W	315 000			
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	Α	207		
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	% -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				
<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		
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 without core end processing     finely stranded without core end processing				
stranded     stranded		min. 2x 50 mm², max. 2x 185 mm² 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		
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				
finely stranded		50 240 mm²		
stranded		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		
for auxiliary contacts		2x (24 16)		
mbient 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)		
• 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		
proteotion oldeo ii on the nont door to 120 00020		finger-safe, for vertical contact from the front with cover		

**General Product Approval** 

**EMC** 

For use in hazardous locations













Declaration of Conformity

**Test Certificates** 

Marine / Shipping

other



Special Test Certificate

Lloyd's Register



Confirmation

	004		
LUL /	CSA	ratin	as
		1000	99

yielded mechanical performance [hp] for 3-phase AC motor

• at 460/480 V

— at standard circuit at 50 °C rated value

• at 575/600 V

hp

300

hp

400

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=3RW4076-2BB35

Cax online generator

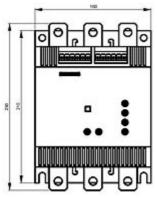
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4076-2BB35

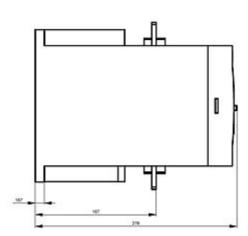
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

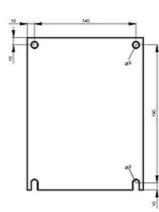
https://support.industry.siemens.com/cs/ww/en/ps/3RW4076-2BB35

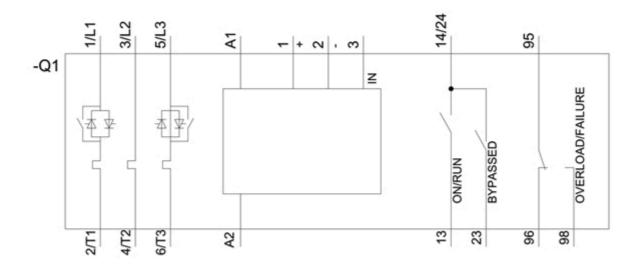
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4076-2BB35&lang=en









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