## **SIEMENS**

Data sheet 3RW4075-6BB35



SIRIUS soft starter S12 315 A, 300 hp/575 V, 50 °C 400-600 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5075-6AB15<<

577				
General technical data				
product brand name		SIRIUS		
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		
<ul><li>external reset</li></ul>		Yes		
<ul> <li>adjustable current limitation</li> </ul>		Yes		
<ul> <li>inside-delta circuit</li> </ul>		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				
product designation	_	Soft starter		

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
<ul> <li>at 60 °C rated value</li> </ul>	Α	280
yielded mechanical performance for 3-phase motors		
• at 400 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	kW	200
• at 500 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	kW	250
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
<ul> <li>at 60 Hz rated value</li> </ul>	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	11111	screw fixing
mounting position		With additional fan: With vertical mounting surface +/-90°
mounting position		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		
<ul><li>upwards</li></ul>	mm	100
at the side	mm	5
<ul><li>downwards</li></ul>	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
<ul> <li>for auxiliary and control circuit</li> </ul>		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		
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		
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		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
using the front clamping point		3/0 600 kcmil

min. 2x 2/0, max. 2x 500 kcmil • using both clamping points type of connectable conductor cross-sections for DIN cable lug for main contacts 50 ... 240 mm<sup>2</sup> finely stranded 70 ... 240 mm<sup>2</sup> stranded type of connectable conductor cross-sections for auxiliary contacts 2x (0.5 ... 2.5 mm<sup>2</sup>) solid • finely stranded with core end processing 2x (0.5 ... 1.5 mm<sup>2</sup>) type of connectable conductor cross-sections at AWG cables • for main contacts 2/0 ... 500 kcmil · for auxiliary contacts 2x (20 ... 14) • for auxiliary contacts finely stranded with core end 2x (20 ... 16) processing **Ambient conditions** installation altitude at height above sea level 5 000 m environmental category during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) during storage according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 during operation according 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 °C • during operation -25 ... +60 • during storage °C -40 ... +80 °C 40 derating temperature protection class IP on the front according to IEC IP00; IP20 with cover 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover

Certificates/ approvals

**General Product Approval** 

**EMC** 



Confirmation









Declaration of Conformity

**Test Certificates** 

Marine / Shipping

other



Special Test Certificate





Confirmation

UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 460/480 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	250
• at 575/600 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	300
contact rating of auxiliary contacts according to UL		B300 / R300

## **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)

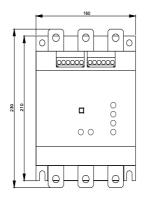
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4075-6BB35

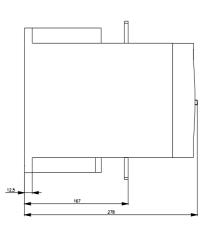
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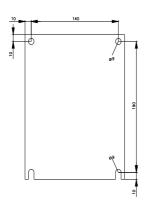
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4075-6BB35

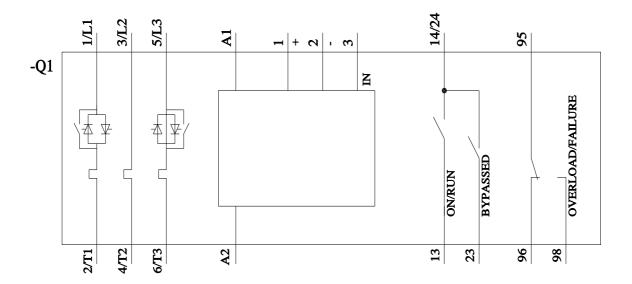
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4075-6BB35

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4075-6BB35&lang=en









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