SIEMENS

Data sheet

3RW4075-6BB44



SIRIUS soft starter S12 356 A, 200 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 >>3RW5075-6AB14<<

and that have a name		
product brand name		SIRIUS
product feature		
 integrated bypass contact system 		Yes
• thyristors		Yes
product function		
 intrinsic device protection 		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		No
external reset		Yes
 adjustable current limitation 		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		
 at 40 °C rated value 	А	356
 at 50 °C rated value 	А	315
 at 60 °C rated value 	А	280
yielded mechanical performance for 3-phase motors • at 230 V		
 — at standard circuit at 40 °C rated value at 400 V 	W	110 000
- at standard circuit at 40 °C rated value	W	200 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	100
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

standard circuit%minimum load [%]%adjustable motor current for motor overload protection minimum rated valueA131continuous operating current [% of le] at 40 °C%formulation operational current at 40 °C%power loss [W] at operational current at 40 °C during operation typicalWControl circuit/ Control125type of voltage of the control supply voltageACcontrol supply voltage frequency 1 rated valueHzformulation of the control supplyHzcontrol supply voltage frequency 2 rated valueHzformulative negative tolerance of the control supply%-10-10	
adjustable motor current for motor overload protection minimum rated value A 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 V 125 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	
protection minimum rated value	
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	
operation typical Control circuit/ Control Control circuit/ Control Karal 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	
type of voltage of the control supply voltageACcontrol supply voltage frequency 1 rated valueHz50control supply voltage frequency 2 rated valueHz60relative negative tolerance of the control supply%-10	
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control supply voltage frequency 1 rated valueHz50control supply voltage frequency 2 rated valueHz60relative negative tolerance of the control supply%-10	
relative negative tolerance of the control supply % -10	
voltage frequency	
relative positive tolerance of the control supply % 10 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 % -15 voltage at AC at 50 Hz	
relative positive tolerance of the control supply%10voltage at AC at 50 Hz10	
relative negative tolerance of the control supply % -15 voltage at AC at 60 Hz	
relative positive tolerance of the control supply % 10 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 +/- 22.5 to the front and back Without additional fan: With vertical mounting surface +/- 10° rotatable, with vertical rounting surface +/- 10° t	5° tiltable h vertical
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	
• finely stranded with core end processing 70 240 mm ²	
• finely stranded without core end processing 70 240 mm ²	
• stranded 95 300 mm ²	
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 mm ²	

stranded		120 240 mm²	
type of connectable conductor cross-sections for main contacts for box terminal using both clamping			
points			2
• finely stranded with core end processing		min. 2x 50 mm², max. 2x 185 mm	
 finely stranded without core end processing stranded 		min. 2x 50 mm ² , max. 2x 185 mn max. 2x 70 mm ² , max. 2x 240 mr	
type of connectable conductor cross-sections at AW cables for main contacts for box terminal	G		
 using the back clamping point 		250 500 kcmil	
 using the front clamping point 		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	N		
 finely stranded 		50 240 mm²	
stranded		70 240 mm²	
type of connectable conductor cross-sections for auxiliary contacts			
• solid		2x (0.5 2.5 mm²)	
 finely stranded with core end processing 		2x (0.5 1.5 mm²)	
type of connectable conductor cross-sections at AW cables	G		
 for main contacts 		2/0 500 kcmil	
 for auxiliary contacts 		2x (20 14)	
 for auxiliary contacts finely stranded with core end processing 		2x (20 16)	
Ambient conditions			
installation altitude at height above sea level	m	5 000	
environmental category			
 during transport acc. to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall he	eight 0.3 m)
 during storage acc. to IEC 60721 		1K6 (only occasional condensation	· · · · · · · · · · · · · · · · · · ·
• during operation acc. to IEC 60721		1S2 (sand must not get inside the 3K6 (no formation of ice, no cono mist), 3S2 (sand must not get into	lensation), 3C3 (no salt
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 fro	om the front with cover
Certificates/ approvals			
General Product Approval		EMC	For use in hazard- ous locations
			K ATEX
Declaration of Conformity Test Cert	ificates Ma	arine / Shipping	other
Miscellaneous <u>Special Tes</u> EG-Konf.		Lovds Register Uts	<u>Confirmation</u>
UL/CSA ratings			
yielded mechanical performance [hp] for 3-phase AC			
motor			

• at 220/230 V					
 — at standard circuit at 50 °C rated value 	hp	125			
• at 460/480 V					
- at standard circuit at 50 °C rated value	hp	250			
contact rating of auxiliary contacts according to UL		B300 / R300			
Further information					
Simulation Tool for Soft Starters (STS)	917				

Internetion and Developments.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=3RW4075-6BB44

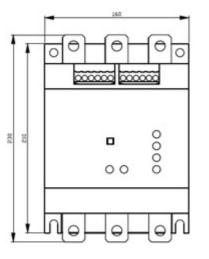
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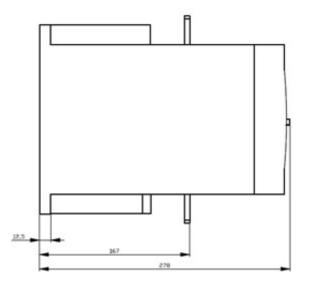
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4075-6BB44

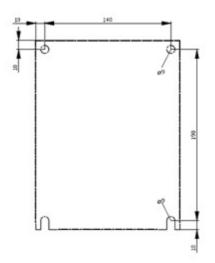
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

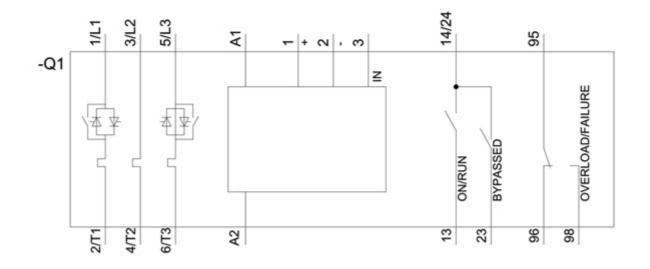
https://support.industry.siemens.com/cs/ww/en/ps/3RW4075-6BB44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4075-6BB44&lang=en









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