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		
 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 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
operational current		
• at 40 °C rated value	А	230
• at 50 °C rated value	А	205
• at 60 °C rated value	А	180
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	kW	75
• at 400 V		
— at standard circuit at 40 °C rated value	kW	132
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	А	80

	_	
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	90
operation typical	_	
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 voltage frequency	%	-10
relative positive tolerance of the control supply 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 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° to tatable, 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	_	3
type of electrical connection		husher 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 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 for AWG cables for main contacts for box terminal		
 using the back clamping point 		250 500 kcmil
using the front clamping point		3/0 600 kcmil

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using both cla				min. 2x 2/0, ma	ax. 2x 500 kcmil			
type of connectable lug for main contac	e conductor cross-sections cts	for DIN cable						
 finely strande 	d			50 240 mm²	50 240 mm²			
 stranded 	stranded			70 240 mm²	70 240 mm²			
type of connectabl contacts	e conductor cross-sections	for auxiliary						
 solid 				2x (0.5 2.5 n	nm²)			
 finely strande 	d with core end processing			2x (0.5 1.5 n	2x (0.5 1.5 mm²)			
type of connectabl cables	e conductor cross-sections	for AWG						
for main contacts				2/0 500 kcm	2/0 500 kcmil			
 for auxiliary control 	ontacts			2x (20 14)				
 for auxiliary concessing 	ontacts finely stranded with c	ore end		2x (20 16)	2x (20 16)			
Ambient conditions								
installation altitude	e at height above sea level		m	5 000				
environmental cate	egory							
 during transport 	ort according to IEC 60721			2K2, 2C1, 2S1	, 2M2 (max. fall height 0.3	all height 0.3 m)		
 during storage 	e according to IEC 60721				1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4			
 during operation 	ion 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 temperatu	re							
 during operation 	ion		°C	-25 +60	-25 +60			
 during storage 	e		°C	-40 +80	-40 +80			
derating temperatu	ire		°C	40	40			
-	on the front according to I				IP00; IP20 with cover			
-	n the front according to IEC	60529		finger-safe, for	vertical contact from the fi	ront with cover		
UL/CSA ratings								
yielded mechanica	I performance [hp] for 3-ph	ase AC motor						
• at 220/230 V								
— at stand	ard circuit at 50 °C rated valu	e	hp	75				
• at 460/480 V								
— at stand	ard circuit at 50 °C rated valu	e	hp	150				
contact rating of a	uxiliary contacts according	to UL		B300 / R300				
Approvals Certificate	es							
General Product A	pproval							
(SP)	<u>Confirmation</u>			CE EG-Konf.	U	EHC		
EMV		For use in haz ous locations	ard- Te	est Certificates	Marine / Shipping			
		ous locations						
RCM	KC	(Ex) ATEX	<u>S</u>	oecial Test Certific- ate		Lloyds Register uis		
other	Environment							
Confirmation	Environmental Con- firmations							

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=3RW4073-6BB44

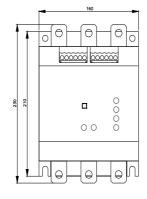
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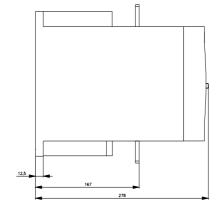
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4073-6BB44

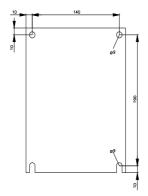
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

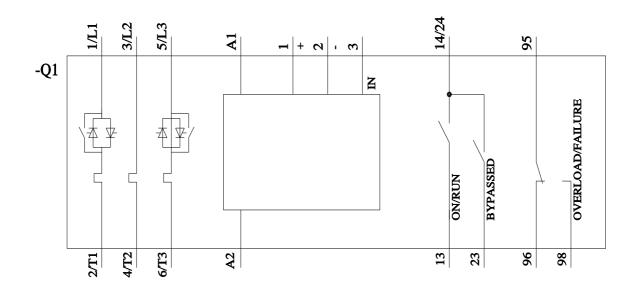
https://suppo rt.industry.siemens.com/cs/ww/en/ps/3RW4073-6BB4

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









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