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<<

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	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	kW	110
• at 400 V		
— at standard circuit at 40 °C rated value	kW	200
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
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 voltage	%	-10
frequency relative positive tolerance of the control supply voltage	%	10
frequency	,,,	
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° 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 		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 with core end processing finely stranded without core end processing 		$70 \dots 240 \text{ mm}^2$
stranded stranded		95 300 mm ²
type of connectable conductor cross-sections for main		
contacts for box terminal using the back clamping point		120 195 mm ²
finely stranded with core end processing finely stranded without core and processing		120 185 mm ²
finely stranded without core end processing		120 185 mm ²
• stranded type of connectable conductor cross-sections for main		120 240 mm²
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 type of connectable conductor cross-sections for AWG		max. 2x 70 mm², max. 2x 240 mm²
cables for main contacts for box terminal		250 500 kcmil
using the back clamping point		
 using the front clamping point 		3/0 600 kcmil

				0 = 0 0 1 1		
using both clamping points		_	min. 2x 2/0, ma	ix. 2x 500 kcmil		
type of connectable conductor of lug for main contacts	cross-sections for DIN cable					
 finely stranded 			50 240 mm²			
stranded			70 240 mm²			
type of connectable conductor contacts	cross-sections for auxiliary	_				
• solid			2x (0.5 2.5 m	ım²)		
 finely stranded with core en 	d processing		2x (0.5 1.5 mm²)			
type of connectable conductor cables	cross-sections for AWG					
 for main contacts 			2/0 500 kcmil			
 for auxiliary contacts 			2x (20 14)			
 for auxiliary contacts finely sprocessing 	stranded with core end		2x (20 16)			
Ambient conditions						
installation altitude at height ab	ove sea level	m	5 000			
environmental category						
 during transport according t 	o IEC 60721		2K2, 2C1, 2S1,	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						
 during operation 		°C	-25 +60			
 during storage 		°C	-40 +80			
derating temperature		°C	40			
protection class IP on the front		_	IP00; IP20 with cover			
touch protection on the front ac	cording to IEC 60529		finger-safe, for vertical contact from the front with cover			
UL/CSA ratings		_				
yielded mechanical performanc	e [hp] for 3-phase AC motor					
• at 220/230 V			105			
— at standard circuit at 5	0 °C rated value	hp	125			
• at 460/480 V	0 °C roted value	ha	250			
at standard circuit at 5 contact rating of auxiliary conta		hp	250 B300 / R300			
Approvals Certificates		_	B3007 R300			
General Product Approval						
SP (Confirma	<u>tion</u>		(h)	FAC	
CSA E	G-Konf.		ccc	UL		
EMV	For use in ha	105	t Certificates	Marine / Shipping		
RCM		> Spe	<u>cial Test Certific-</u> <u>ate</u>		Lloyds Register us	
other Environ	ment					
	<u>mental Con-</u> nations					

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=3RW4075-6BB44

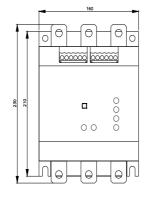
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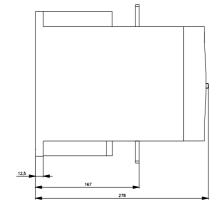
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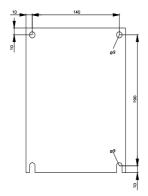
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

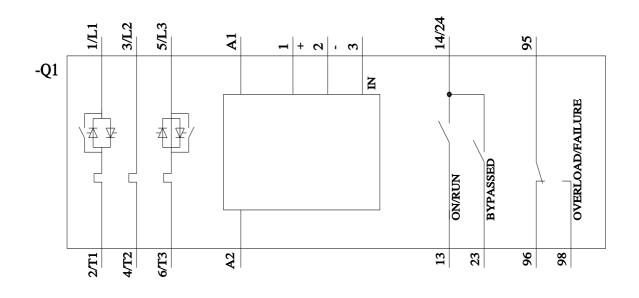
https://suppo rt.industry.siemens.com/cs/ww/en/ps/3RW4075-6BB4

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









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