SIEMENS

Data sheet 3RW40 75-6BB44



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 acc. to DIN EN 61346-2		Q	
Reference code acc. to DIN 40719 extended		G	
according to IEC 204-2 acc. to IEC 750			

Power Electronics		
Product designation		Soft starter
Operating current		
● at 40 °C rated value	Α	356
• at 50 °C rated value	Α	315
• at 60 °C rated value	Α	280
Mechanical power output for three-phase motors		
● at 230 V		
— at standard circuit at 40 °C rated value	W	110 000
● at 400 V		
— at standard circuit at 40 °C rated value	W	200 000
Yielded mechanical performance [hp] for three-phase	hp	100
AC motor at 200/208 V at standard circuit at 50 °C		
rated value		
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	A	131
protection minimum rated value		
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating 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		
• 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		
Mounting type		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 current 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 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 conductors for main contacts for box terminal	
 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	
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	
AWG conductors	
• for main contacts	2/0 500 kcmil
 for auxiliary contacts 	2x (20 14)
 for auxiliary contacts finely stranded with core 	2x (20 16)
end processing	

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 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		IP00	

General Product Approval

EMC

For use in hazardous locations













Declaration of	f Conformity	Test Certific- ates	Marine / Shi	pping	other
EG-Konf.	Miscellaneous	Special Test Certificate	Lloyd's Register	DNV-GL DNVGLCOM/AF	Confirmation

UL/CSA ratings				
Yielded mechanical performance [hp] for three-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)

https://support.industry.siemens.com/cs/ww/en/view/101494917

Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4075-6BB44

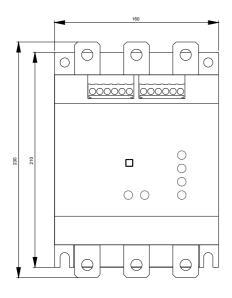
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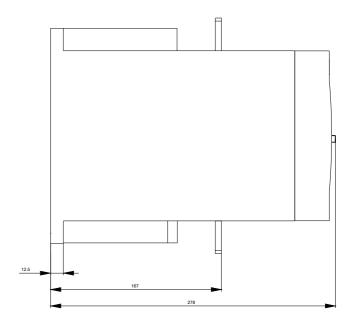
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4075-6BB44

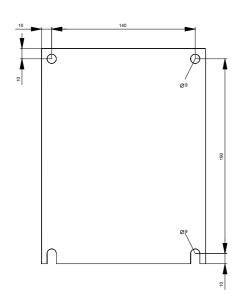
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

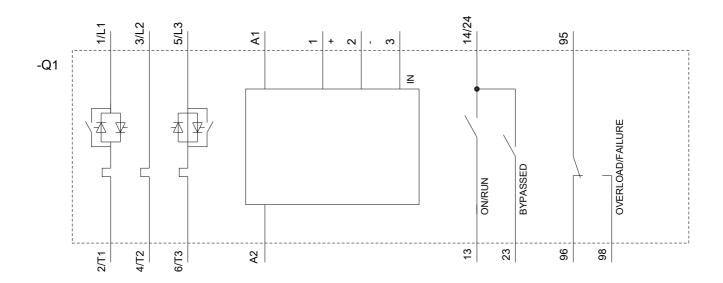
https://support.industry.siemens.com/cs/ww/en/ps/3RW4075-6BB44

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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