SIEMENS

Data sheet

3RW40 73-6BB44



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 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	А	230
● at 50 °C rated value	А	205
● at 60 °C rated value	А	180
Mechanical power output for three-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	75 000
● at 400 V		
— at standard circuit at 40 °C rated value	W	132 000
Yielded mechanical performance [hp] for three-phase	hp	60
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	%	-10
	0/	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	%	10
standard circuit	,0	
Minimum load [%]	%	20
Adjustable motor current for motor overload	A	80
protection minimum rated value		
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating 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	%	-10
voltage frequency		
Relative positive tolerance of the control supply	%	10
voltage frequency		
Control supply voltage 1 at AC	V	220
• 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	%	10
voltage at AC at 50 Hz	70	

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 mm ² , max. 2x 240 mm ²
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 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 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

Certificates/ approvals

General Proc	luct Approval		EMC	For use in haz- ardous loca- tions
	CSA	EHC	RCM	ATEX

Declaration of Confo	ormity	Test Certific- ates	Marine / Shi	oping	other
EG-Konf.	Miscellaneous	Special Test Certi- ficate	Lloyd's Register LRS	DNV-GL	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	75		
● at 460/480 V				
— at standard circuit at 50 °C rated value	hp	150		
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)

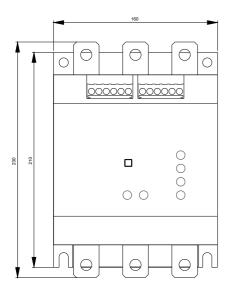
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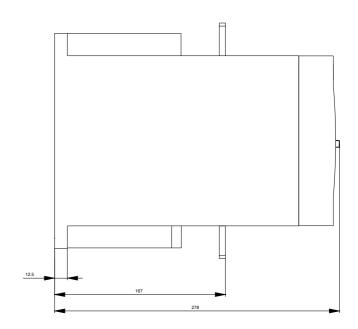
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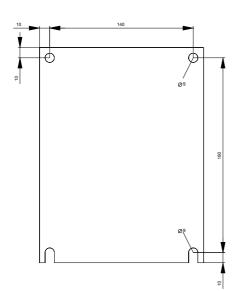
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4073-6BB44

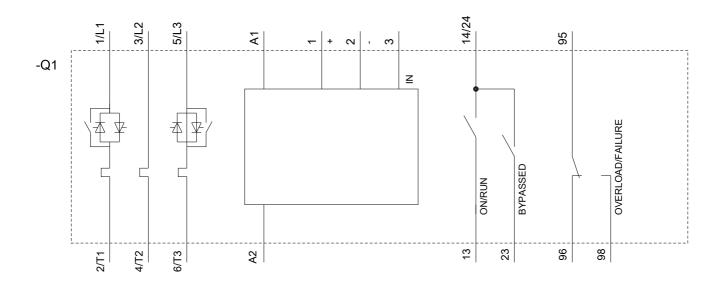
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4073-6BB44

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









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