SIEMENS

Data sheet

3RW40 73-6BB44



SIRIUS SOFT STARTER, S12, 230 A, 132 KW/400 V, 40 DEG., 200-460 V AC, 230 V AC, SCREW TERMINALS

General technical data				
product brandname	SIRIUS			
 Product equipment Integrated bypass contact 	Yes			
system				
 Product feature 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			
Equipment marking acc. to DIN EN 61346-2	Q			
Equipment marking 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 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 [% of IM]	%	20
Adjustable motor current for motor overload protection minimum rated value	A	80
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	90
Control electronics		
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 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		
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		$min 2x = 0 mm^2 max 2x 195 mm^2$
finely stranded with core end processing		min. 2x 50 mm ² , max. 2x 185 mm ²
• 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		
		250 500 kcmil
 using the back clamping point 		

 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 		
		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
 during storage acc. to IEC 60721 		salt mist), 3S2 (sand must not get into the devices),
		salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices),
• during storage acc. to IEC 60721		salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices),
 during storage acc. to IEC 60721 during operation acc. to IEC 60721 	°C	salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices),
during storage acc. to IEC 60721 ouring operation acc. to IEC 60721 Ambient temperature	°C °C	salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
 during storage acc. to IEC 60721 during operation acc. to IEC 60721 Ambient temperature during operation 		salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 -25 +60
 during storage acc. to IEC 60721 during operation acc. to IEC 60721 Ambient temperature during operation during storage 	°C	salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 -25 +60 -40 +80

General Produc	t Approval			EMC	For use in hazardous locations
	(SA)		EHC	C-Tick	ATEX
Declaration of Conformity	Test Certificates	Shipping Ap	proval	other	

Conformity	Certificates				
CE	Special Test Certificate	GL®	Lloyd's Register	Environmental Confirmations	Confirmation
EG-Konf.		GL	LRS		

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		

-urther information

Simulation Tool for Soft Starters (STS)

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

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

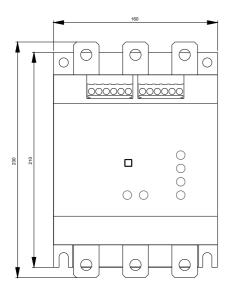
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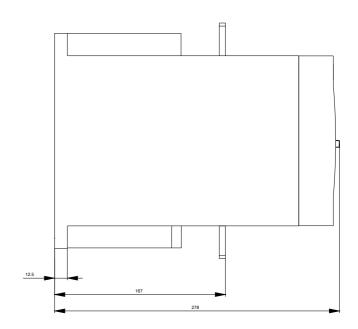
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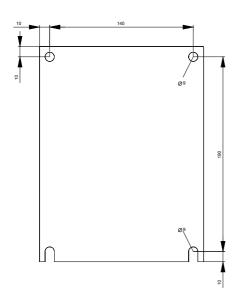
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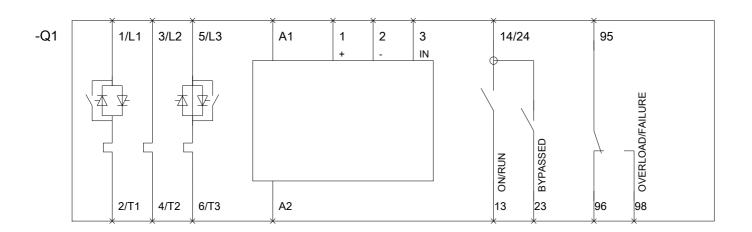
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4073-6BB44

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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