SIEMENS

Data sheet 3RW40 73-6BB45



SIRIUS SOFT STARTER, S12, 230 A, 160 KW/500 V, 40 DEG., 400-600 V AC, 230 V AC, SCREW TERMINALS

product brandname	SIRIUS
 Product equipment Integrated bypass contact system 	Yes
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	

Product designation

Soft starter

Operating current		
at 40 °C rated value	Α	230
at 50 °C rated value	Α	205
at 60 °C rated value at 60 °C rated value	Α	180
Mechanical power output for three-phase motors	- ' '	100
• at 400 V		
	W	132 000
— at standard circuit at 40 °C rated value	VV	132 000
• at 500 V	NA /	400,000
— at standard circuit at 40 °C rated value	W	160 000
Operating frequency rated value	Hz	50 60
Relative negative tolerance of the operating	%	-10
frequency Relative positive tolerance of the operating frequency	%	10
Operating voltage at standard circuit rated value	70 V	400 600
Relative negative tolerance of the operating voltage		-15
at standard circuit	70	-13
Relative positive tolerance of the operating voltage at standard circuit	%	10
Minimum load [% of IM]	%	20
Adjustable motor current for motor overload	Α	80
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	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	%	-15
voltage at AC at 60 Hz		
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-t	ype 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 24	40 mm²
• finely stranded without core end processing	70 24	40 mm²
• stranded	95 30	00 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 2	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	c 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 5	500 kcmil
using the front clamping point	3/0 6	00 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		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
 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 Product Approval

EMC

For use in hazardous locations













Declaration of Conformity	Test Certificates	Shipping Approval		other	other	
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 460/480 V			
 at standard circuit at 50 °C rated value 	hp	150	
● at 575/600 V			
— at standard circuit at 50 °C rated value	hp	200	
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,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4073-6BB45

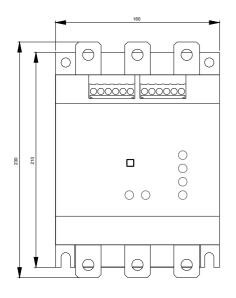
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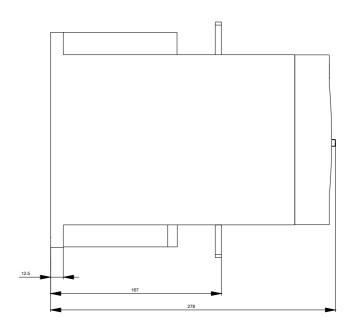
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4073-6BB45

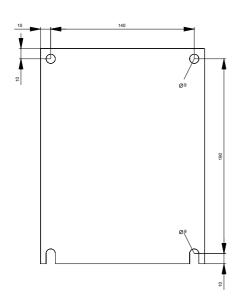
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

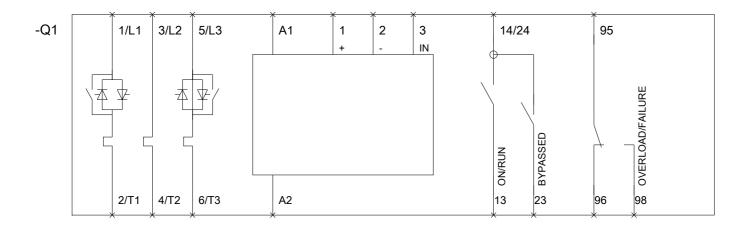
https://support.industry.siemens.com/cs/ww/en/ps/3RW4073-6BB45

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4073-6BB45&lang=en









last modified: 07/20/2017