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 brand name	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 starters for standard applications

Operating current		
• at 40 °C rated value	Α	230
● at 50 °C rated value	Α	205
• at 60 °C rated value	Α	180
Mechanical power output for three-phase motors		
● at 400 V		
— at standard circuit at 40 °C rated value	W	132 000
● at 500 V		
— 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	V	400 600
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	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
	V	230
at 60 Hz rated value Polative pogative telerance of the central supply		
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
Installation altitude at height above sea level	m	5 000
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:		
Ambient temperature		
during operation	°C	-25 +60

Ambient conditions:			
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 Ap	oproval		other
CE	spezielle Prüfbescheinigunge <u>n</u>	ÅÅ	GL®	Lloyd's Register	Umweltbestätigung
EG-Konf.		DNV	GL	LRS	

other

Bestätigungen

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)

http://www.siemens.com/industrymall

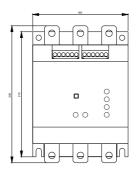
Cax online generator

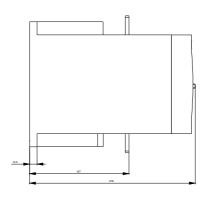
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW4073-6BB45}$

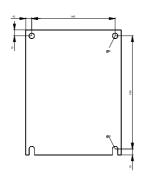
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

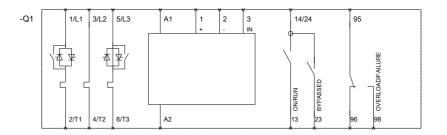
https://support.industry.siemens.com/cs/ww/en/ps/3RW4073-6BB45

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









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