SIEMENS

Data sheet 3RW4073-2BB45



SIRIUS soft starter S12 230 A, 160 kW/500 V, 40 °C 400-600 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5073-2AB15<<

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 according to IEC 204-2 acc. to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
 at 40 °C rated value 	Α	230
 at 50 °C rated value 	Α	205
at 60 °C rated value	Α	180
yielded mechanical performance for 3-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 frequency	%	-10
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 [%]	%	20

adjustable motor current for motor overload protection minimum rated value	А	80		
continuous operating current [% of le] at 40 °C	- %	115		
power loss [W] at operational current at 40 °C during operation typical	W	90		
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		
fastening method		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 circuit		spring-loaded 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 processingstranded		70 240 mm ² 95 300 mm ²		
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				
type of confidentable 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 with core end processing finely stranded without core end processing		min. 2x 50 mm², max. 2x 165 mm²		
stranded stranded		max. 2x 70 mm², max. 2x 240 mm²		
type of connectable conductor cross-sections at AWG		111dx. 2x 70 111111 , 111dx. 2x 240 111111		
cables 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 (0.25 1.5 mm²)		
 finely stranded with core end processing 		2x (0.25 1.5 mm²)		
type of connectable conductor cross-sections at AWG cables				
for main contacts		2/0 500 kcmil		
 for auxiliary contacts 		2x (24 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 on the front acc. to IEC 60529		IP00; IP20 with cover		
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front with cover		
Certificates/ approvals				
			For use in hazar	
		EMO	. J. GOO III IIGZGI	

General Product Approval

EMC

For use in hazardous locations













Declaration of Conformity

Test Certificates

Marine / Shipping

other

Miscellaneous



Special Test Certificate





Confirmation

OL/OSA ratings
yielded mechanical performance [hp] for 3-phase AC motor

• at 460/480 V

— at standard circuit at 50 °C rated value

• at 575/600 V

hp 150

hp

200

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,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4073-2BB45

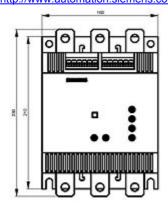
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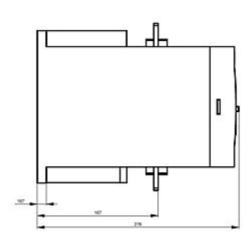
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4073-2BB45

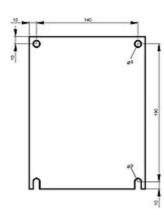
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

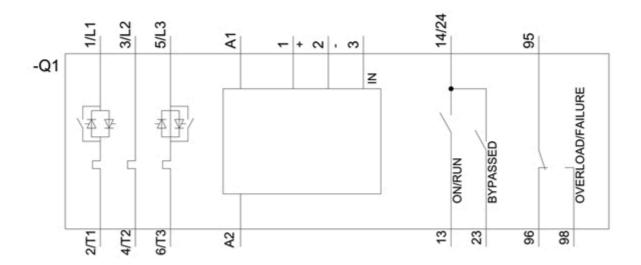
https://support.industry.siemens.com/cs/ww/en/ps/3RW4073-2BB45

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









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