SIEMENS

Data sheet 3RW4073-2BB44



SIRIUS soft starter S12 230 A, 132 kW/400 V, 40 °C 200-460 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5073-2AB14<<

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 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 3-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 [%]	%	20	

adjustable motor current for motor overload protection minimum rated value continuous operating current [% of le] at 40 °C	
continuous operating current [% of le] at 40 °C	
power loss [W] at operational 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 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	
relative positive tolerance of the control supply voltage at AC at 50 Hz	
relative negative tolerance of the control supply voltage at AC at 60 Hz	
relative positive tolerance of the control supply % 10 voltage at AC at 60 Hz	
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 rotatable, with vertical mounting to the front and back Without add mounting surface +/-10° rotatable surface +/- 10° t	surface +/- 22.5° tiltable ditional fan: With vertical
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 CO contacts for auxiliary contacts 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 mm ²	
• 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 stranded 120 185 mm² 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 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
a during energtion and to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt
during operation acc. to IEC 60721		mist), 3S2 (sand must not get into the devices), 3M6
ambient temperature		mist), 3S2 (sand must not get into the devices), 3M6
	°C	mist), 3S2 (sand must not get into the devices), 3M6
ambient temperature	°C °C	
ambient temperature • during operation	_	-25 +60
ambient temperature • during operation • during storage	°C	-25 +60 -40 +80
ambient temperature	°C	-25 +60 -40 +80 40

General Product Approval

EMC

For use in hazardous locations













Declaration of Conformity

Test Certificates

Marine / Shipping

other



Special Test Certific-<u>ate</u>



Confirmation

UL/CSA ratings		
yielded mechanical performance [hp] for 3-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,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4073-2BB44

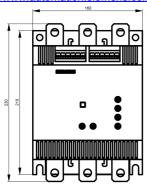
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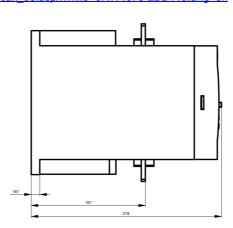
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4073-2BB44

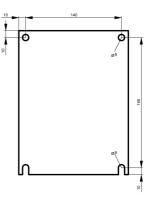
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

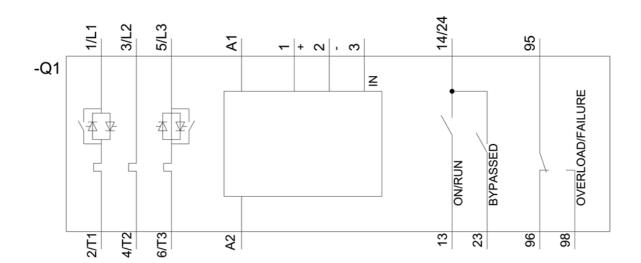
https://support.industry.siemens.com/cs/ww/en/ps/3RW4073-2BB44

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









last modified: 12/15/2020 🖸