SIEMENS

Data sheet 3RW4074-2BB44



SIRIUS soft starter S12 280 A, 160 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 >>3RW5074-2AB14<<

·		
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 according to EN 61346-2		Q
reference code according to DIN 40719 extended		G
according to IEC 204-2 according to IEC 750		
Power Electronics		
product designation		Soft starter
operational current		
 at 40 °C rated value 	Α	280
 at 50 °C rated value 	Α	248
 at 60 °C rated value 	Α	215
yielded mechanical performance for 3-phase motors		
● at 230 V		
 — at standard circuit at 40 °C rated value 	kW	90
• at 400 V		
 — at standard circuit at 40 °C rated value 	kW	160
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	75
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
	0/	00

minimum load [%]

adjustable motor current for motor overload

protection minimum rated value

%

Α

20

130

continuous operating current [% of le] at 40 °C	%	115
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	%	10
voltage frequency		
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	%	-15
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 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		hugher connection
		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 with core end processing finely stranded without core end processing		70 240 mm²
Innery stranded without core end processing stranded		70 240 mm² 95 300 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back		95 500 HIIII
clamping point		400 405 3
finely stranded with core end processing		120 185 mm²
finely stranded without core end processingstranded		120 185 mm ² 120 240 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
main contacts for box terminal using both clamping		min. 2x 50 mm², max. 2x 185 mm²
main contacts for box terminal using both clamping points • finely stranded with core end processing		min. 2x 50 mm², max. 2x 185 mm² min. 2x 50 mm², max. 2x 185 mm²
main contacts for box terminal using both clamping points		min. 2x 50 mm², max. 2x 185 mm²
main contacts for box terminal using both clamping points • finely stranded with core end processing • finely stranded without core end processing		

 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 according to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
 during storage according to IEC 60721 		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
 during operation according 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 according to IEC 60529		IP00; IP20 with cover
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front with cover
Certificates/ approvals		

General Product Approval

EMC



Confirmation











Special Test Certific-





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	100		
• at 460/480 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 on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

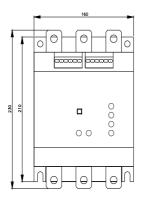
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4074-2BB44

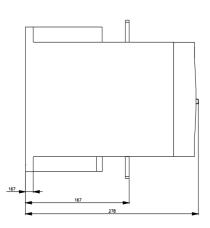
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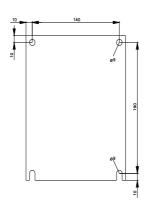
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4074-2BB44

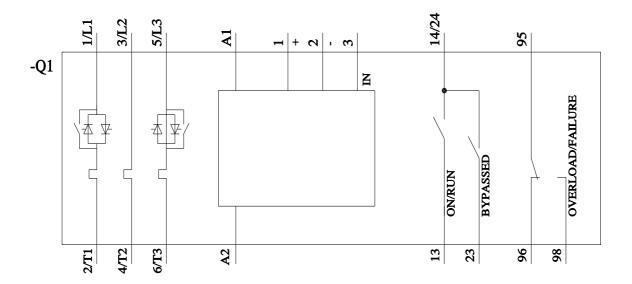
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4074-2BB44

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4074-2BB44&lang=en









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