SIEMENS

Data sheet 3RW4074-2BB45



SIRIUS soft starter S12 280 A, 200 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 >>3RW5074-2AB15<<

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	280		
 at 50 °C rated value 	Α	248		
at 60 °C rated value	А	215		
yielded mechanical performance for 3-phase motors				
• at 400 V				
 — at standard circuit at 40 °C rated value 	W	160 000		
• at 500 V				
— at standard circuit at 40 °C rated value	W	200 000		
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	%	10		
standard circuit				

adjustable motor current for motor overload protection minimum rated value	Α	130
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	-	40
relative positive tolerance of the control supply voltage frequency	<u></u>	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		

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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 w	ont with cover

General Product Approval

EMC

For use in hazardous locations













Declaration of Conformity

Test Certificates

Marine / Shipping

other

CE EG-Konf. Miscellaneous

Special Test Certificate

Lloyd's Register



Confirmation

UL/GSA ratings	
yielded mechanical performance [hp] for 3-pha motor	ise AC

• at 460/480 V

— at standard circuit at 50 °C rated value

• at 575/600 V

hp 200

hp

250 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=3RW4074-2BB45

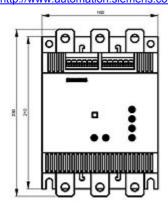
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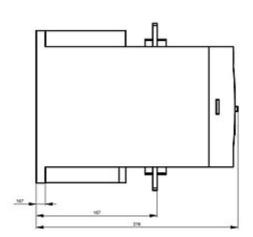
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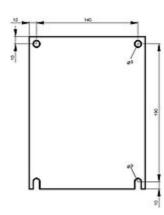
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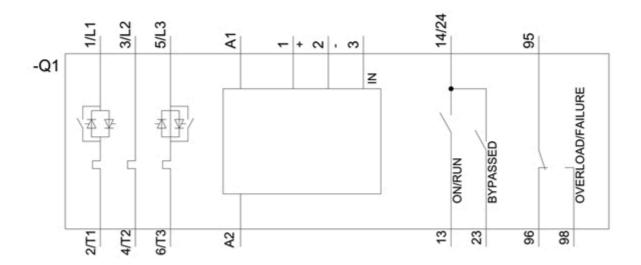
https://support.industry.siemens.com/cs/ww/en/ps/3RW4074-2BB45

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4074-2BB45&lang=en









last modified: 12/15/2020 🖸