SIEMENS

Data sheet

3RW3047-2BB04



SIRIUS soft starter S3 106 A, 55 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 24 V AC/DC spring-type terminals

General technical data				
product brand name		SIRIUS		
product feature				
 integrated bypass contact system 		Yes		
thyristors		Yes		
product function				
 intrinsic device protection 		No		
 motor overload protection 		No		
 evaluation of thermistor motor protection 		No		
external reset		No		
 adjustable current limitation 		No		
 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 	А	106		
 at 50 °C rated value 	А	98		
• at 60 °C rated value	А	90		
yielded mechanical performance for 3-phase motors • at 230 V				
 — at standard circuit at 40 °C rated value at 400 V 	W	30 000		
— at standard circuit at 40 °C rated value	W	55 000		
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	30		
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	200 480		
relative negative tolerance of the operating voltage at standard circuit	%	-15		
relative positive tolerance of the operating voltage at	%	10		

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standard circuit	0/	10		
minimum load [%]	%	10		
continuous operating current [% of le] at 40 °C		115		
power loss [W] at operational current at 40 °C during operation typical	VV	21		
Control circuit/ Control				
type of voltage of the control supply voltage		AC/DC		
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	24		
• at 60 Hz rated value	V	24		
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		
control supply voltage 1 at DC rated value	V	24		
relative negative tolerance of the control supply voltage at DC	%	-15		
relative positive tolerance of the control supply voltage at DC	%	10		
display version for fault signal		red		
Mechanical data				
size of engine control device		\$3		
width	mm	70		
height	mm	170		
depth	mm	190		
fastening method		screw and snap-on mounting		
mounting position		With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back		
required spacing with side-by-side mounting				
upwards	mm	60		
• at the side	mm	30		
downwards	mm	40		
wire length maximum	m	300		
number of poles for main current circuit		3		
Connections/ Terminals				
type of electrical connection				
 for main current circuit 		screw-type terminals		
 for auxiliary and control circuit 	_	spring-loaded terminals		
number of NC contacts for auxiliary contacts	_	0		
number of NO contacts for auxiliary contacts		1		
number of CO contacts for auxiliary contacts		0		
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point				
• solid		2x (2.5 16 mm²)		
 finely stranded with core end processing 		2.5 35 mm ²		
stranded		4 70 mm²		
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point				
• solid		2x (2.5 16 mm²)		

 finely stranded with core end processing 		2.5 50 mm ²	2	
stranded	_	10 70 mm²		
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points				
• solid		2x (2.5 16	mm²)	
 finely stranded with core end processing 		2x (2.5 35	,	
• stranded		2x (10 50 r		
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal	-		,	
 using the back clamping point 		10 2/0		
 using the front clamping point 		10 2/0		
 using both clamping points 	_	2x (10 1/0)		
type of connectable conductor cross-sections for DIN cable lug for main contacts				
 finely stranded 		2 x (10 50	mm²)	
stranded	-	2x (10 70 r	nm²)	
type of connectable conductor cross-sections for auxiliary contacts				
• solid		2x (0.25 2.		
finely stranded with core end processing	-	2x (0.25 1.	5 mm²)	
type of connectable conductor cross-sections at AWG cables				
for main contacts		2x (7 1/0)		
for auxiliary contacts		2x (24 14)		
Ambient conditions		· · · · · · · · · · · · · · · · · · ·		
installation altitude at height above sea level	m	5 000		
environmental category	-			
during transport acc. to IEC 60721		2K2, 2C1, 2S	1, 2M2 (max. fall heigh	t 0.3 m)
during storage acc. to IEC 60721		1K6 (only occ	asional condensation),	1C2 (no salt mist),
• during operation acc. to IEC 60721		3K6 (no forma	ust not get inside the de ation of ice, no condens and must not get into the	sation), 3C3 (no salt
ambient temperature	-	11100, 002 (00	and materior get into th	
during operation	°C	-25 +60		
• during storage	°C	-40 +80		
derating temperature	°C	40		
protection class IP	-	IP00		
Certificates/ approvals				
General Product Approval				EMC
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				TC-M
Declaration of Conformity			Test Certificates	
		Miscellaneous	Special Test	Type Test
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				Report
EG-Konf. EG-Konf. EG-Konf.				
other Railway				
Confirmation Miscellaneous Vibration and S	Shock			
Confirmation Miscellaneous Vibration and S	GHUCK			

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	30			
• at 460/480 V					
— at standard circuit at 50 °C rated value	hp	75			
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/101494 Information- and Downloadcenter (Catalogs, Brochures, https://www.siemens.com/ic10					
Industry Mall (Online ordering system)					
https://mall.industry.siemens.com/mall/en/en/Catalog/produc	<u>:t?mlfb=3RW3</u>	<u>i047-2BB04</u>			
Cax online generator http://support.automation.siemens.com/WW/CAXorder/defau	ult aspx?lang=	en&mlfb=3RW3047-2BB04			
Service&Support (Manuals, Certificates, Characteristics		<u></u>			
https://support.industry.siemens.com/cs/ww/en/ps/3RW3047	7-2BB04				
Image database (product images, 2D dimension drawing					
http://www.automation.siemens.com/bilddb/cax_de.aspx?ml	<u>ID=3RVV3047-</u>	<u>2BBU4⟨=en</u>			
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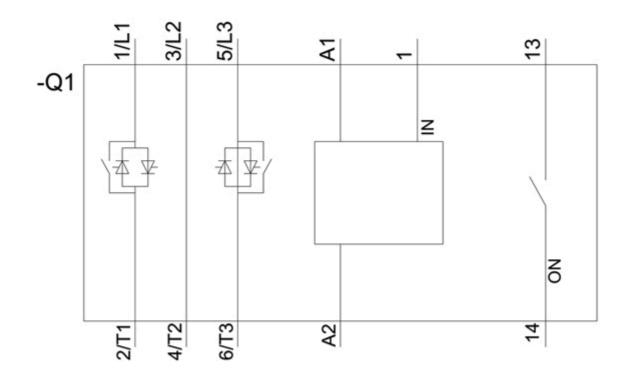
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