SIEMENS

Data sheet

3RW3047-1BB04



SIRIUS soft starter S3 106 A, 55 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 24 V AC/DC Screw 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 minimum load [%]	%	10
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during		21
operation typical	vv	
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		S3
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		screw-type 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 mm²
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 mm²	
 stranded 		10 70 mm ²	
• stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		10 70 mm	
• solid		2x (2.5 16 mm²)	
 finely stranded with core end processing 		2x (2.5 35 mm ²)	
• stranded		2x (10 50 mm ²)	
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 mm²)	
type of connectable conductor cross-sections for auxiliary contacts			
• solid		2x (0.5 2.5 mm²)	
 finely stranded with core end processing 		2x (0.5 1.5 mm²)	
type of connectable conductor cross-sections at AWG cables			
 for main contacts 		2x (7 1/0)	
 for auxiliary contacts 		2x (20 14)	
mbient 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),	
• during operation acc. to IEC 60721		1S2 (sand must not get inside the dev 3K6 (no formation of ice, no condensa mist), 3S2 (sand must not get into the	ation), 3C3 (no salt
ambient temperature			
during operation	°C	-25 +60	
during storage	°C	-40 +80	
	°C	40	
	0		
derating temperature		ID 20	
protection class IP on the front acc. to IEC 60529		IP20	e front
		IP20 finger-safe, for vertical contact from th	ne front

UL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor • at 220/230 V

at standard sizewit at 50 °C rated value	ha	20
— 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/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=3RW3047-1BB04

Cax online generator

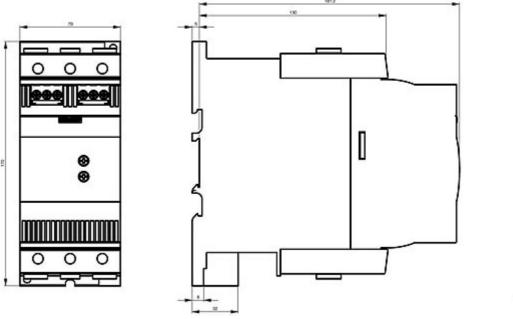
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3047-1BB04

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

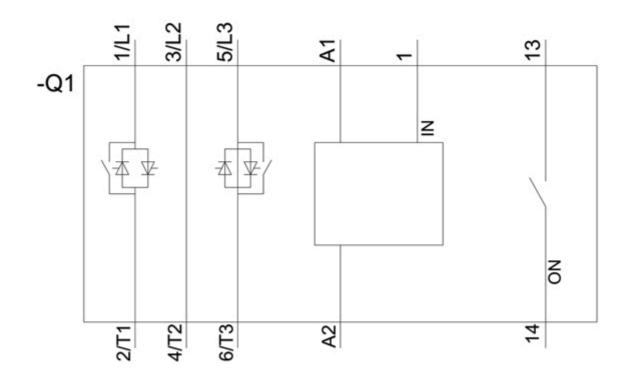
https://support.industry.siemens.com/cs/ww/en/ps/3RW3047-1BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3047-1BB04&lang=en







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