SIEMENS

Data sheet

3RW3016-2BB04



SIRIUS soft starter S00 9 A, 4 kW/400 V, 40 °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 according to EN 61346-2		Q		
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G		
Power Electronics				
product designation		Soft starter		
operational current				
 at 40 °C rated value 	А	9		
• at 50 °C rated value	А	8		
• at 60 °C rated value	А	7		
yielded mechanical performance for 3-phase motors				
• at 230 V				
 — at standard circuit at 40 °C rated value 	kW	2.2		
• at 400 V				
- at standard circuit at 40 °C rated value	kW	4		
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	2		
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 standard circuit	%	10		
minimum load [%]	%	10		

continuous operating current [% of le] at 40 °C	%	115		
power loss [W] at operational current at 40 °C during		1		
operation typical	• •			
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	%	-20		
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	20		
relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-20		
relative positive tolerance of the control supply voltage at AC at 60 Hz	%	20		
control supply voltage 1 at DC rated value	V	24		
relative negative tolerance of the control supply voltage at DC	%	-20		
relative positive tolerance of the control supply voltage at DC	%	20		
display version for fault signal		red		
Mechanical data				
size of engine control device		S00		
width	mm	45		
height	mm	120		
depth	mm	150		
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	15		
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		spring-loaded 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				
solidfinely stranded with core end processing		2x (1 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²)		
type of connectable conductor cross-sections at AWG		2A (1 2.0 mm), 2A (2.0 0 mm)		
cables for main contacts for box terminal • using the front clamping point		2x (16 10)		
type of connectable conductor cross-sections for main contacts	-	24 (10 10)		
solid		1 4 mm²		
		$1 \dots 4 \text{ mm}^2$ 1 2.5 mm ²		
finely stranded with core end processing type of connectable conductor cross-sections for		1		
ype of connectable conductor cross-sections 10f				

	-			
auxiliary contacts				
• solid		2x (0.25 2.5 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 		16 12		
 for auxiliary contacts 		2x (24 14)		
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	_	IP20		
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front		
Certificates/ approvals				
General Product Approval				EMC
CSA CCC		UL		RCM
Declaration of Conformity Test Certificates other				
EG-Konf. <u>Type Test Certific-ates/Test Report</u> <u>Confirmation</u>	<u>on N</u>	<u>/liscellaneous</u>		
UL/CSA ratings				
yielded mechanical performance [hp] for 3-phase AC				
motor				
● at 220/230 V				
	hp	2		
• at 220/230 V	hp	2		
• at 220/230 V — at standard circuit at 50 °C rated value	hp hp	2		
 at 220/230 V at standard circuit at 50 °C rated value at 460/480 V 				
 at 220/230 V at standard circuit at 50 °C rated value at 460/480 V at standard circuit at 50 °C rated value 		5		
at 220/230 V — at standard circuit at 50 °C rated value at 460/480 V — at standard circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Further information Simulation Tool for Soft Starters (STS)	hp	5		
at 220/230 V — at standard circuit at 50 °C rated value at 460/480 V — at standard circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Further information	. hp 	5		

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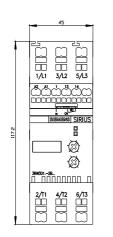
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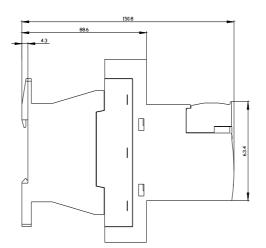
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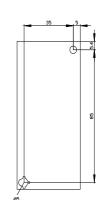
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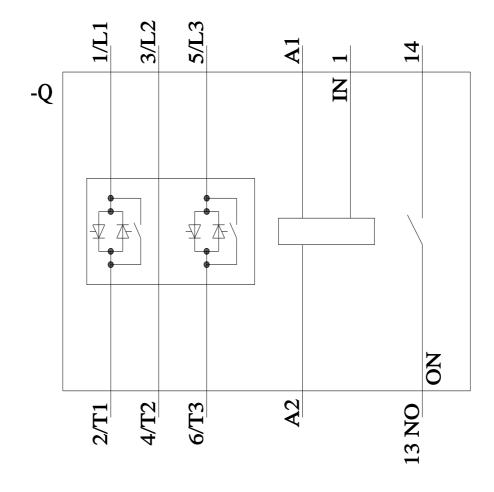
https://support.industry.siemens.com/cs/ww/en/ps/3RW3016-2BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3016-2BB04&lang=en









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