SIEMENS

Data sheet 3RW3016-1BB04



SIRIUS soft starter S00 9 A, 4 kW/400 V, 40 °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	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 	W	2 200
● at 400 V		
 at standard circuit at 40 °C rated value 	W	4 000
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

	0/	445
continuous operating current [% of le] at 40 °C	_ %	115
power loss [W] at operational current at 40 °C during operation typical	W	1
Control circuit/ Control		
		AC/DC
type of voltage of the control supply voltage	- 11-	
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	- %	10
voltage frequency	, 0	
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	%	-20
voltage at AC at 50 Hz		
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	%	-20
voltage at DC relative positive tolerance of the control supply		20
voltage at DC	- 70 -	
display version for fault signal		red
Mechanical data	<u>, </u>	
size of engine control device		S00
width	mm	45
height	mm	95
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		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 (1 2.5 mm²), 2x (2.5 6 mm²)
 finely stranded with core end processing 		2x (1 2.5 mm²), 2x (2.5 6 mm²)
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal		
using the front clamping point		2x (16 10)
type of connectable conductor cross-sections for auxiliary contacts		
solid		2v (0.25 2.5 mm²)
		2x (0.25 2.5 mm²)
a finally atrandad with same and sure a		2v (0.2E - 1.E mm2)
finely stranded with core end processing type of connectable conductor cross-sections at AWG		2x (0.25 1.5 mm²)

cables				
for auxiliary contacts		2x (20 14)		
 for auxiliary contacts finely stranded with core end processing 		2x (20 16)		
Ambient 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), 1S2 (sand must not get inside the devices), 1M4		
 during operation acc. 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 acc. to IEC 60529		IP20		
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front		
Certificates/approvals				

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity













Test Certificates

other

Type Test Certificates/Test Report

Confirmation

Miscellaneous

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	2
• at 460/480 V		
 at standard circuit at 50 °C rated value 	hp	5
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)

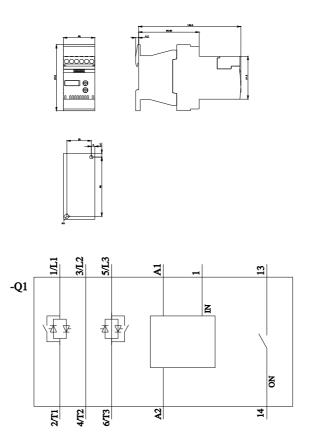
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3016-1BB04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3016-1BB04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW3016-1BB04



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