SIEMENS

Data sheet

3RW4036-2BB04



SIRIUS soft starter S2 45 A, 22 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		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 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	45
● at 50 °C rated value	А	42
● at 60 °C rated value	А	39
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	kW	11
● at 400 V		
— at standard circuit at 40 °C rated value	kW	22
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	10
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 [%]	%	20
adjustable motor current for motor overload protection minimum rated value	А	23

continuous operating current [% of le] at 40 °C	%	115			
power loss [W] at operational current at 40 °C during	W	6			
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	%	-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	%	-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	_	S2			
width	mm	55			
height	mm	160			
depth	mm	170			
fastening method		screw and snap-on mounting			
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° totatable, with vertical mounting surface +/- 10° t			
required spacing with side-by-side mounting					
• upwards	mm	60			
• at the side	mm	30			
downwards	mm	40			
wire length maximum		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		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					
• solid		2x (1.5 16 mm ²)			
finely stranded with core end processing		0.75 25 mm ²			
stranded type of connectable conductor cross-sections for main type for the back allowing in the back allowing and the back a		0.75 35 mm²			
contacts for box terminal using the back clamping point		$\Omega_{11}(4.5 - 4.0 \text{ mm}^2)$			
• solid		2x (1.5 16 mm ²)			
 finely stranded with core end processing 		1.5 25 mm ²			
stranded type of connectable conductor cross-sections for main contracts for here terminal using both elements points		1.5 35 mm²			
contacts for box terminal using both clamping points		$2 \times (4 = -40 \text{ mm}^2)$			
• solid		2x (1.5 16 mm²)			
 finely stranded with core end processing 		2x (1.5 16 mm²)			

 stranded 				2x (1.5 25 m	m ²)		
	onductor cross-sections for AWG			27 (1.5 25 m			
cables for main conta							
 using the back cl 	amping point			16 2			
 using the front classifier 				18 2			
 using both clamp 				2x (16 2)			
	onductor cross-sections for auxiliary						
 solid 				2x (0.25 2.5	mm²)		
 finely stranded w 	ith core end processing			2x (0.25 1.5 mm ²)			
-	onductor cross-sections for AWG			,	,		
 for auxiliary containing 	acts			2x (24 14)			
Ambient conditions							
installation altitude at	height above sea level	n	า	5 000			
environmental catego							
-	according to IEC 60721			2K2, 2C1, 2S1,	2M2 (max. fall height 0.3	m)	
• •	cording 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 th	e front according to IEC 60529			finger-safe, for vertical contact from the front			
UL/CSA ratings							
yielded mechanical pe	erformance [hp] for 3-phase AC motor						
• at 220/230 V							
— at standard	circuit at 50 °C rated value	h	D	15			
• at 460/480 V							
	circuit at 50 °C rated value	h	D	30			
			r	B300 / R300			
Approvals Certificates							
General Product App	roval						
General i roduct Appl	0701						
					<u>Confirmation</u>		
General Product Ap- proval	EMV			se in hazard- ocations	Test Certificates		
EHC	KC RCM			K ATEX	Type Test Certific- ates/Test Report	Special Test Certific- ate	
Marine / Shipping			other		Railway		
1Å DNV	LIRS PRS		<u>C</u>	<u>onfirmation</u>	<u>Special Test Certific-</u> <u>ate</u>	<u>Confirmation</u>	
Environment							
Environmental Con- firmations							

Further information

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875 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=3RW4036-2BB04

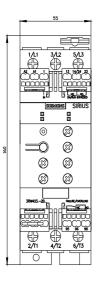
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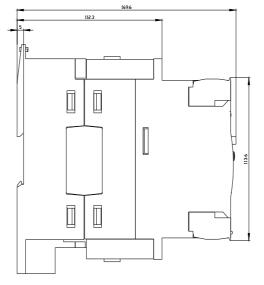
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4036-2BB04

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

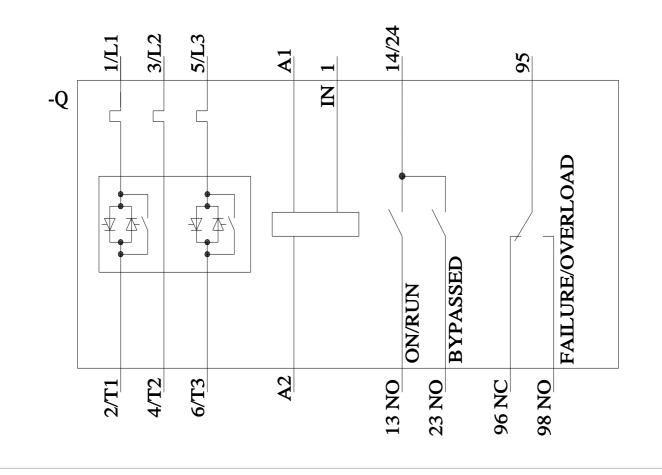
https://support.industry.siemens.com/cs/ww/en/ps/3RW4036-2BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4036-2BB04&lang=en









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