## SIEMENS

## Data sheet

## 3RW3036-2BB04



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		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
thyristors		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		No
<ul> <li>motor overload protection</li> </ul>		No
<ul> <li>evaluation of thermistor motor protection</li> </ul>		No
external reset		No
<ul> <li>adjustable current limitation</li> </ul>		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		
<ul> <li>at 40 °C rated value</li> </ul>	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	W	11 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	22 000
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	%	10

	_	
standard circuit minimum load [%]	%	10
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		
<ul> <li>at 50 Hz rated value</li> </ul>	V	24
at 60 Hz rated value	V	24
relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-10
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	%	-10
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	%	-10
relative positive tolerance of the control supply voltage at DC	%	10
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 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		
<ul> <li>for main current circuit</li> </ul>		screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>		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 (1.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		1.5 25 mm²
• stranded		1.5 35 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
• solid		2x (1.5 16 mm²)
		(

for a last start of a start			4.5 05	2	
	with core end processing		1.5 25 1		
main contacts for b	conductor cross-sections ox terminal using both cla		1.5 35 ı	mm <sup>2</sup>	
points					
• solid			2x (1.5	,	
•	with core end processing		2x (1.5		
stranded		( 1)1/0	2x (1.5	25 mm²)	
51	e conductor cross-sections ntacts for box terminal	s at AWG			
<ul> <li>using the back</li> </ul>	clamping point		16 2		
<ul> <li>using the front</li> </ul>	clamping point		18 2		
<ul> <li>using both clan</li> </ul>	nping points		2x (16 2	2)	
type of connectable auxiliary contacts	e conductor cross-sections	s for			
<ul> <li>solid</li> </ul>			2x (0.25	2.5 mm²)	
<ul> <li>finely stranded</li> </ul>	with core end processing		2x (0.25	1.5 mm²)	
type of connectable cables	conductor cross-sections	s at AWG			
<ul> <li>for auxiliary cor</li> </ul>	ntacts		2x (24 <sup>*</sup>	14)	
Ambient conditions					
installation altitude	at height above sea level	r	n 5 000		
environmental cate	gory				
<ul> <li>during transport</li> </ul>	rt acc. to IEC 60721		2K2, 2C1,	, 2S1, 2M2 (max. fall h	eight 0.3 m)
<ul> <li>during storage</li> </ul>	acc. to IEC 60721			occasional condensat d must not get inside th	ion), 1C2 (no salt mist), ne devices), 1M4
<ul> <li>during operatio</li> </ul>	on acc. to IEC 60721			ormation of ice, no con 2 (sand must not get in	densation), 3C3 (no salt to the devices), 3M6
ambient temperatur	re				
<ul> <li>during operation</li> </ul>	n	0	C -25 +60	)	
<ul> <li>during storage</li> </ul>		0	C -40 +80	)	
derating temperatur	re	0	C 40		
protection class IP	on the front acc. to IEC 60	529	IP20		
touch protection on	the front acc. to IEC 6052	9	finger-safe	e, for vertical contact f	rom the front
Certificates/ approva	ls				
General Product A	pproval			EMC	Declaration of Conformity
0		<u> </u>		^	
SP.	(M)	(ΨL)	EHE	Ø	CE
CSA	ccc	UL		RCM	EG-Konf.
Declaration of					
Declaration of Conformity	Test Certificates		other		Railway
Miscellaneous	Type Test Certific- Spe ates/Test Report	ecial Test Certific- ate	Confirmation	<u>Miscellaneou</u>	<u>s Confirmation</u>

Railway

Vibration and Shock

hp	15
hp	30
	B300 / R300
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**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=3RW3036-2BB04

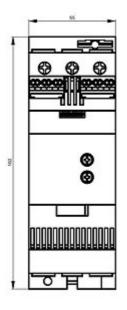
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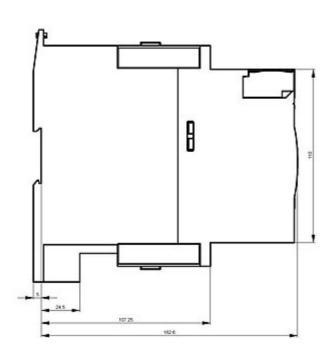
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3036-2BB04

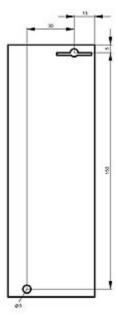
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

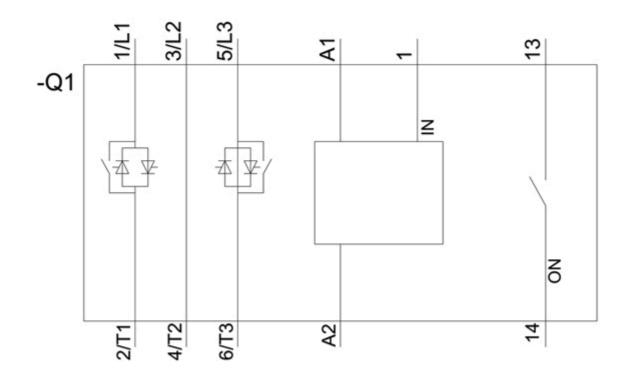
 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RW3036-2BB04}$ 

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3036-2BB04&lang=en









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