# SIEMENS

### Data sheet

## 3RW3046-1BB04



SIRIUS soft starter S3 80 A, 45 kW/400 V, 40 °C 200-480 V AC, 24 V AC/DC Screw 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
<ul> <li>inside-delta circuit</li> </ul>		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		
<ul> <li>at 40 °C rated value</li> </ul>	А	80
<ul> <li>at 50 °C rated value</li> </ul>	A	73
<ul> <li>at 60 °C rated value</li> </ul>	А	66
yielded mechanical performance for 3-phase motors		
• at 230 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	kW	22
• at 400 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	kW	45
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	20
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	W	12

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	%	-10
voltage frequency		
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
<ul> <li>at 60 Hz rated value</li> </ul>	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	%	-15
voltage at DC relative positive tolerance of the control supply	%	10
voltage at DC		rad
display version for fault signal Mechanical data		red
size of engine control device		S3
size of engine control device	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 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> <li>stranded</li> </ul>		2.5 35 mm² 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)
<ul> <li>finely stranded with core end processing</li> <li>stranded</li> </ul>		2.5 50 mm² 10 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
• solid		2x (2.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (2.5 35 mm <sup>2</sup> )
• stranded		2x (10 50 mm <sup>2</sup> )

<ul> <li>cables for main corr         <ul> <li>using the back</li> <li>using the front</li> <li>using both clar</li> </ul> </li> <li>type of connectable cable lug for main contacts</li> <li>finely stranded</li> <li>stranded</li> <li>type of connectable auxiliary contacts</li> <li>solid</li> <li>finely stranded</li> </ul> <li>type of connectable cable for main contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li>	clamping point nping points conductor cross-section contacts e conductor cross-section with core end processing conductor cross-section conductor cross-section cts	ons for DIN ons for		10 2/0 10 2/0 2x (10 1/0) 2 x (10 50 r 2x (10 70 r 2x (0.5 2.5 2x (0.5 1.5 2x (7 1/0) 2x (20 14)	nm²) mm²)				
Ambient conditions									
environmental cate • during transpor • during storage • during operation ambient temperatur • during operation • during storage derating temperatur protection class IP 60529	rt according to IEC 60721 according to IEC 60721 on according to IEC 60727 re on re on the front according to is	o IEC	m °C °C °C	1K6 (only occ. 1S2 (sand mu 3K6 (no forma mist), 3S2 (sa -25 +60 -40 +80 40 IP20	1, 2M2 (max. fall heigh asional condensation), ist not get inside the de ation of ice, no condens nd must not get into th r vertical contact from	, 1C2 (no salt mist), evices), 1M4 sation), 3C3 (no salt le devices), 3M6			
Declaration of	Test Certificates		othe	r		Railway			
Conformity									
EG-Konf,	Special Test Certific- ate	Type Test Ce ates/Test Re		onfirmation	Miscellaneous	Vibration and Shock			
yielded mechanical motor	performance [hp] for 3-	pnase AC							
• at 220/230 V									
— at standard circuit at 50 °C rated value		hp	25						
<ul> <li>at 460/480 V</li> <li>— at standard circuit at 50 °C rated value</li> </ul>		hp	50						
contact rating of auxiliary contacts according to UL			- P	B300 / R300					
Further information									
Simulation Tool for									
https://support.industry.siemens.com/cs/ww/en/view/101494917 Information on the packaging									

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=3RW3046-1BB04

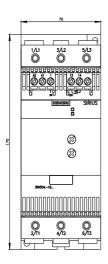
#### Cax online generator

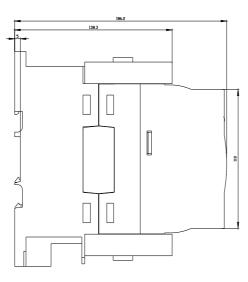
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3046-1BB04

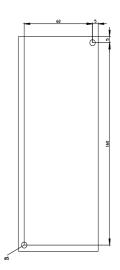
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

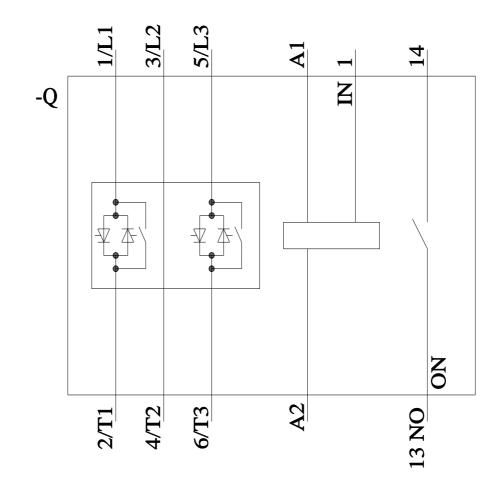
https://support.industry.siemens.com/cs/ww/en/ps/3RW3046-1BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3046-1BB04&lang=en









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