SIEMENS

Data sheet

3RW3046-2BB04



SIRIUS soft starter S3 80 A, 45 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 		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	80
● at 50 °C rated value	А	73
• at 60 °C rated value	А	66
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	kW	22
• at 400 V		
— at standard circuit at 40 °C rated value	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
		40
minimum load [%]	%	10

power loss [W] at operational current at 40 °C during operation typical	W	12
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	%	-15
relative positive tolerance of the control supply voltage at DC	%	10
display version for fault signal		red
Mechanical data		
size of engine control device		S3
width	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
P ======		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 		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 (2.5 16 mm²)
 finely stranded with core end processing 		2.5 35 mm ²
stranded		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)
 finely stranded with core end processing 		2.5 50 mm ²
stranded		10 70 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
solid		$2x (2.5 - 16 \text{ mm}^2)$
		2x (2.5 16 mm ²)
 finely stranded with core end processing stranded 		$2x (2.5 \dots 35 \text{ mm}^2)$
• stranded		2x (10 50 mm²)
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal		

contact rating of auxil Approvals Certificates General Product Appr General Product Ap- proval EFRE other Miscellaneous		Confirmation KC Environment	Tes <u>Spe</u>	Certificates	CCC Type Test Certific- ates/Test Report	UL other Confirmation	
contact rating of auxil Approvals Certificates General Product Appr CSA General Product Ap- proval	roval UK EMV EMV	KC	Tes	EG-Konf. t Certificates cial Test Certific-			
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contact rating of auxil Approvals Certificates							
contact rating of auxil							
				D00071X000			
— at standard circuit at 50 °C rated value			hp	50 B300 / R300			
• at 460/480 V			k r	50			
	circuit at 50 °C rated valu	le	hp	25			
• at 220/230 V							
yielded mechanical pe	erformance [hp] for 3-ph	ase AC motor					
UL/CSA ratings							
-	he front according to IE0				vertical contact from the f	ront	
	the front according to I	EC 60529	Ŭ	40 IP20			
derating temperature			0°	40 +80			
during operationduring storage			°C	-25 +60 -40 +80			
ambient temperature outring operation			°C	-25 +60			
	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		
0 0	ccording to IEC 60721			(sand must not	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
÷ .	according to IEC 60721				2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
environmental catego	ory						
installation altitude at	height above sea level		m	5 000			
Ambient conditions							
 for auxiliary containing 				2x (24 14)			
 for main contacts 	5			2x (7 1/0)			
type of connectable conception to the context of th	onductor cross-sections	s for AWG					
	vith core end processing			2x (0.25 1.5 r	2x (0.25 1.5 mm²)		
 solid 				2x (0.25 2.5 r	nm²)		
contacts	511000010101055-5800001	o ioi auxilidiy					
stranded	onductor cross-sections	s for auviliary		2x (10 70 mm	i ⁻)		
 finely stranded 				2 x (10 50 mr			
lug for main contacts							
type of connectable c	onductor cross-sections	s for DIN cable					
using both clamping points				2x (10 1/0)			
-				10 2/0			
using the back cl using the front cla using both clamp				10 2/0			

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=3RW3046-2BB04

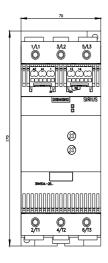
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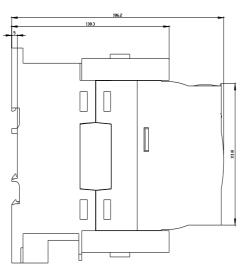
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3046-2BB04

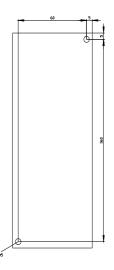
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

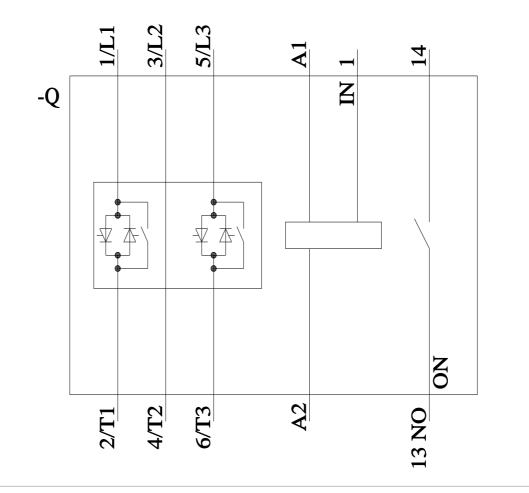
https://support.industry.siemens.com/cs/ww/en/ps/3RW3046-2BB04

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









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