SIEMENS

Data sheet

3RW3046-1BB04



SIRIUS soft starter S3 80 A, 45 kW/400 V, 40 $^\circ\text{C}$ 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 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
minimum load [%]	%	10
continuous operating current [% of le] at 40 °C	%	115

	10/	10
power loss [W] at operational current at 40 °C during operation typical	W	12
Control circuit/ Control		the second s
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	%	-10
frequency		
relative positive tolerance of the control supply voltage	%	10
frequency 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	%	-15
AC at 50 Hz		
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	%	10
DC display version for fault signal	-	red
display version for fault signal 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
		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 number of poles for main current circuit	m	300
Connections/ Terminals		5
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		0 (0.5 10 2)
• solid		2x (2.5 16 mm ²)
 finely stranded with core end processing stranded 		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 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
• solid		2x (2.5 16 mm²)
 finely stranded with core end processing 		2x (2.5 35 mm²)
stranded		2x (10 50 mm²)
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal		

General Product Approval	EMV ECM RCM Railway	KC Environment	Spe	st Certificates ecial Test Certific- ate	Type Test Certific- ates/Test Report	other Confirmation	
proval	RCM			ecial Test Certific-			
proval	EMV	KC		ecial Test Certific-			
	EMV		Tes	st Certificates		other	
(SP)	UK CA	CE EG-Konf.		<u>Confirmation</u>		UL.	
General Product App	roval						
Approvals Certificates	liary contacts according			B3007 R300			
	l circuit at 50 °C rated val		hp	50 B300 / R300			
• at 460/480 V	l circuit at 50 °C rated val		hp	25			
yielded mechanical pe • at 220/230 V	erformance [hp] for 3-pl	hase AC motor					
JL/CSA ratings	-						
-	he front according to IE			finger-safe, for vertical contact from the front			
	protection class IP on the front according to IEC 60529			IP20			
derating temperature			°C	40 100			
during operation orage			°C	-40 +80			
 ambient temperature during operation 			°C	-25 +60			
	according to IEC 60721			3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6			
÷ .	ccording to IEC 60721			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							
Ambient conditions	height above sea level	_	m	5 000			
 for auxiliary cont 	acts	_	_	2x (20 14)			
for main contacts				2x (7 1/0)			
type of connectable c cables	onductor cross-section	s for AWG					
	vith core end processing			2x (0.5 1.5 mr	m²)		
 solid 				2x (0.5 2.5 mr	m²)		
type of connectable c contacts	onductor cross-section	s for auxiliary					
 stranded 				2x (10 70 mm²)			
 finely stranded 				2 x (10 50 mn	1²)		
lug for main contacts	onductor cross-section	IS FOR DIN CADIE					
	• •			2x (10 1/0)			
 using both clamp 				10 2/0			
using the front clusing both clamp	amping point			4.0 0/0			

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=3RW3046-1BB04

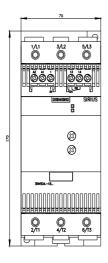
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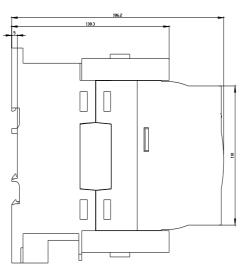
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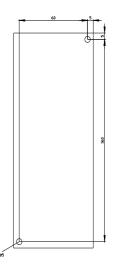
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

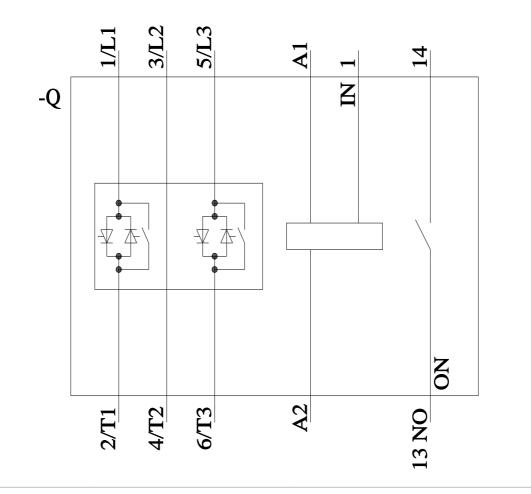
https://support.industry.siemens.com/cs/ww/en/ps/3RW3046-1BB04

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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