SIEMENS

Data sheet

3RW4046-2BB15



SIRIUS soft starter S3 80 A, 55 kW/500 V, 40 $^\circ\text{C}$ 400-600 V AC, 110-230 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 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					
 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 400 V					
 — at standard circuit at 40 °C rated value 	W	45 000			
• at 500 V					
— at standard circuit at 40 °C rated value	W	55 000			
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	400 600			
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	A	43
continuous operating current [% of le] at 40 °C	%	115
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	V	110 230
control supply voltage 1 at AC at 60 Hz	V	110 230
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	V	110 230
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 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° rotatable, 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	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		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		2x/25 16 mm ²)
• solid		2x (2.5 16 mm ²)
 finely stranded with core end processing 		2.5 35 mm ²
• stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		4 70 mm²

 solid 				2x (2.5 16 n	nm²)	
 finely stranded 	with core end processi	ng		2.5 50 mm²		
 stranded 			-	10 70 mm²		
	conductor cross-sec ox terminal using bot					
 solid 				2x (2.5 16 n	nm²)	
 finely stranded 	with core end processi	ng		2x (2.5 35 n	nm²)	
 stranded 			-	2x (10 50 m	ım²)	
	conductor cross-sec tacts for box terminal					
 using the back 	clamping point			2x (10 1/0)		
 using the front of 				2x (10 1/0)		
using both clam				10 2/0		
cable lug for main c	conductor cross-sec	tions for DIN				
 finely stranded 				2 x (10 50 n	nm²)	
 stranded 				2x (10 70 m		
type of connectable auxiliary contacts	conductor cross-sec	tions for			/	
solid				2x (0.25 2.5	mm²)	
	with core end processi	ng		2x (0.25 1.5		
	conductor cross-sec	-	-		, ,	
cables						
 for main contact 	ts			2x (7 1/0)		
 for auxiliary con 	ntacts			2x (24 14)		
Ambient conditions						
	at height above sea le	evel	. m	5 000		
environmental categ						
•	t acc. to IEC 60721				1, 2M2 (max. fall heigh	,
 during storage a 	acc. to IEC 60721				asional condensation) st not get inside the d	
 during operation 	n acc. to IEC 60721			3K6 (no forma	tion of ice, no conden nd must not get into th	sation), 3C3 (no salt
ambient temperature	6		-			
during operation		°C	-25 +60			
 during storage 			°C	-40 +80		
derating temperature			°C	40		
protection class IP on the front acc. to IEC 60529			-	IP20		
				tinger-safe, for	r vertical contact from	the front
Certificates/ approval	S	_				
General Product Ap	oproval				EMC	For use in hazard- ous locations
	(m)	Ē		rnr	A	
	<u> </u>	জ		tHL		ATEX
Declaration of Conf	ormity	Test Certifica	ates		Marine / Shipping	
	Miscellaneous	Special Test C	ertific- T	vpe Test Certific-		STA.
		ate		ates/Test Report	Lloyds	
CE						1. AR 1
C E					100	DBC
CE EG-Konf.					URS	PRS
EG-Konf.	other	Railway			LRS	PRS



UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 460/480 V		
 — at standard circuit at 50 °C rated value 	hp	50
• at 575/600 V		
- at standard circuit at 50 °C rated value	hp	60
contact rating of auxiliary contacts according to UL		B300 / R300
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=3RW4046-2BB15

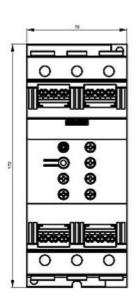
Cax online generator

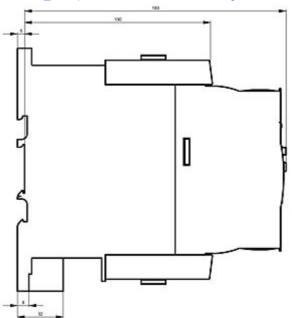
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4046-2BB15

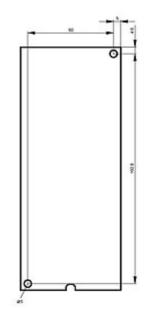
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

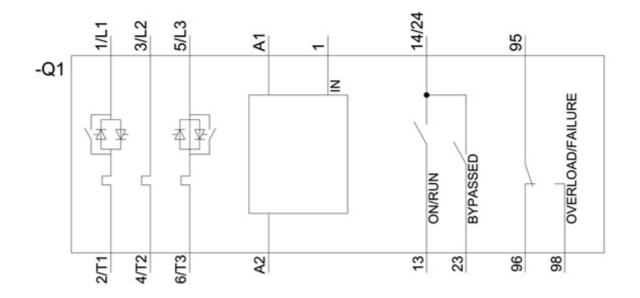
https://support.industry.siemens.com/cs/ww/en/ps/3RW4046-2BB15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4046-2BB15&lang=en









last modified:

12/15/2020 🖸