SIEMENS

Data sheet

3RW3047-2BB14



SIRIUS soft starter S3 106 A, 55 kW/400 V, 40 $^{\circ}\text{C}$ 200-480 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 		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 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	106		
 at 50 °C rated value 	А	98		
• at 60 °C rated value	А	90		
yielded mechanical performance for 3-phase motors • at 230 V	-			
 — at standard circuit at 40 °C rated value at 400 V 	W	30 000		
— at standard circuit at 40 °C rated value	W	55 000		
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	30		
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 sizerit	-	
standard circuit minimum load [%]	~ %	10
	- %	115
continuous operating current [% of le] at 40 °C power loss [W] at operational current at 40 °C during		21
operation typical	vv	21
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 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		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 mm ²)
finely stranded with core end processingstranded		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 finely stranded with core end processing 		2x (2.5 16 mm²) 2.5 50 mm²

-			
	0x (0 E 16 r	2002)	
	,	,	
_	28 (10 50 11	···· <i>)</i>	
	10 2/0		
	10 2/0		
	2x (10 1/0)		
	2 x (10 50 r	nm²)	
_	2x (10 70 m	nm²)	
	2x (0.25 2.5	5 mm²)	
_	2x (0.25 1.5	5 mm²)	
	2x (7 1/0)		
	2x (24 14)		
_			
m	5 000		
	2K2, 2C1, 2S	1, 2M2 (max. fall he	ight 0.3 m)
	1S2 (sand mu	ist not get inside the	e devices), 1M4
_			
_			
°C			
_			
_	tinger-sate, to	r vertical contact fro	om the front
		EMC	Declaration of Conformity
	гог	A	<u>Miscellaneous</u>
	tHL		
oth	ner		Railway
<u>Certific-</u> <u>N</u>	<u> Aiscellaneous</u>	Confirmation	Vibration and Shock
	°C °C °C	2x (2.5 35 r 2x (10 50 n 10 2/0 10 2/0 2x (10 1/0) 2 x (10 70 n 2 x (0.25 2.8 2 x (0.25 1.8 2 x (0.25 1.8 2 x (0.25 1.8 2 x (0.25 1.8 2 x (24 14) m 5 000 2 K2, 2C1, 2S 1 K6 (only occ 1 S2 (sand mu 3 K6 (no forma mist), 3S2 (sand mist), 3S2 (sand m	10 2/0 2x (10 1/0) 2 x (10 50 mm²) 2x (10 70 mm²) 2x (0.25 2.5 mm²) 2x (0.25 1.5 mm²) 2x (7 1/0) 2x (24 14) m 5 000 2K2, 2C1, 2S1, 2M2 (max. fall he 1K6 (only occasional condensation 1S2 (sand must not get inside the 3K6 (no formation of ice, no cond mist), 3S2 (sand must not get into 1S2

— at standard circuit at 50 °C rated value	hp	30
• at 460/480 V		
— at standard circuit at 50 °C rated value	hp	75
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=3RW3047-2BB14

Cax online generator

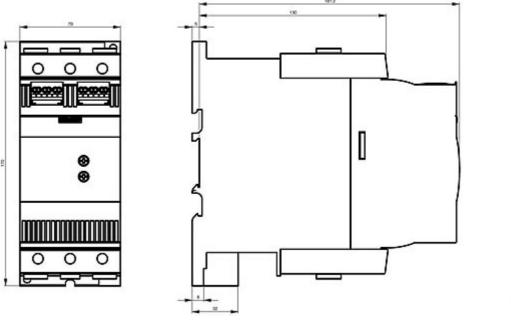
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3047-2BB14

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

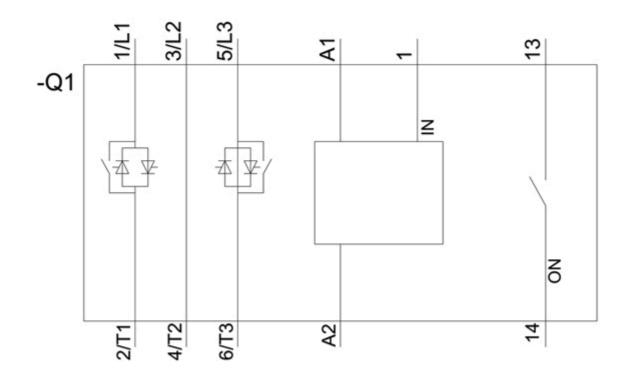
https://support.industry.siemens.com/cs/ww/en/ps/3RW3047-2BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3047-2BB14&lang=en







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