SIEMENS

Data sheet

3RW4024-1BB14



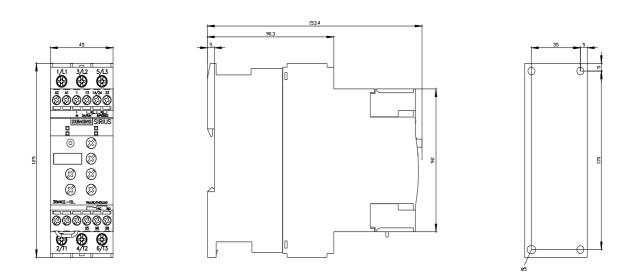
SIRIUS soft starter S0 12.5 A, 5.5 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 110-230 V AC/DC Screw terminals

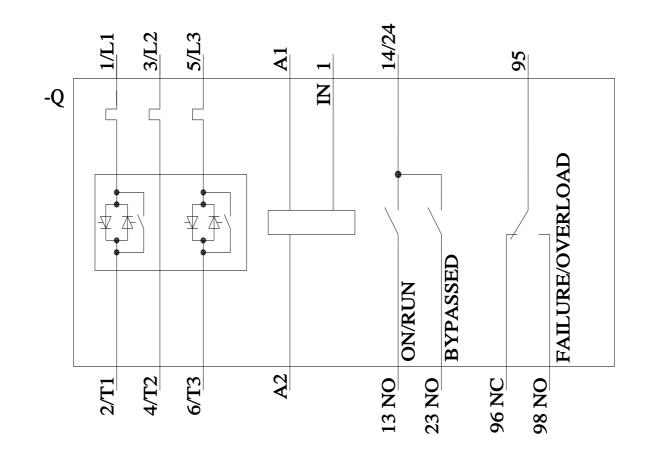
General technical data				
product brand name		SIRIUS		
product feature				
 integrated bypass contact system 		Yes		
thyristors		Yes		
product function	-			
 intrinsic device protection 		Yes		
 motor overload protection 		Yes		
 evaluation of thermistor motor protection 		No		
external reset		Yes		
 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 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	12.5		
 at 50 °C rated value 	А	11		
• at 60 °C rated value	А	10		
yielded mechanical performance for 3-phase motors • at 230 V				
— at standard circuit at 40 °C rated value	kW	3		
• at 400 V				
- at standard circuit at 40 °C rated value	kW	5.5		
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	3		
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 [%]	%	20		

adjustable motor current for motor overload protection minimum rated value	А	5		
continuous operating current [% of le] at 40 °C	%	115		
power loss [W] at operational current at 40 °C during operation typical	W	2		
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		S0		
width	mm	45		
height	mm	125		
depth	mm	155		
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	15		
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		2		
number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point	-	ı 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²		
• solid				
 solid finely stranded with core end processing 		2x (1 2.5 mm ²), 2x (2.5 6 mm ²)		
• finely stranded with core end processing type of connectable conductor cross-sections at AWG cables for main contacts for box terminal				
 finely stranded with core end processing type of connectable conductor cross-sections at AWG cables for main contacts for box terminal using the front clamping point 		2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10)		
• finely stranded with core end processing type of connectable conductor cross-sections at AWG cables for main contacts for box terminal				

 finely stranded 	with core end processi	na		2x (0.5 1.5	mm²)			
		27 (0.0 1.0						
type of connectable conductor cross-sections at AWG cables								
 for auxiliary con 	tacts			2x (20 14)	2x (20 14)			
<u>,</u>	tacts finely stranded w	vith core end		2x (20 16)				
processing	processing							
Ambient conditions								
	at height above sea le	evel	m	5 000				
environmental categ	-	24		01/0 004 00				
0 1	according to IEC 607				1, 2M2 (max. fall height	,		
 during storage a 	 during storage according to IEC 60721 				asional condensation), f			
 during operation 	 during operation according to IEC 60721 			3K6 (no forma	1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no s mist), 3S2 (sand must not get into the devices), 3M6			
ambient temperature	9				ind maet net get me the			
 during operation 			°C	-25 +60				
 during storage 			°C	-40 +80				
derating temperature	9		°C	40				
•	on the front according	g to IEC		IP20				
60529	the french and the first state of the first state of the			finger of f	number of the state	- front		
-	the front according t	0 IEC 60529		tinger-sate, fo	r vertical contact from th			
Certificates/ approvals								
General Product Ap	proval					EMC		
	Confirmation			-		•		
(5)	<u>Confirmation</u>	(m)		Ē	гпг			
U		<u>u</u>		W	r M I	29		
CSA		ccc		UL		RCM		
For use in hazard-	Declaration of							
ous locations	Conformity	Test Certifica	ites		Marine / Shipping			
	"	Special Test Co		e Test Certific-	Llovds	(And)		
(Ex/		ate	ale	s/Test Report	Register			
ATEX	EG-Konf.				LRS	PRS		
Marine / Shipping	other	Railway						
ANTRONG AND	Confirmation	Confirmation	<u>on</u>					
DAVGLOBAN								
UL/CSA ratings	-							
yielded mechanical motor	performance [hp] for	3-phase AC						
• at 220/230 V								
 at zzorzato v at standard circuit at 50 °C rated value 		hp	3					
• at 460/480 V		ήP	Ŭ					
— at standard circuit at 50 °C rated value		hp	7.5					
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.si	https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4024-1BB14							
Cax online generator								

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4024-1BB14 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4024-1BB14 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4024-1BB14&lang=en





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