SIEMENS

Data sheet

3RW4024-1BB14



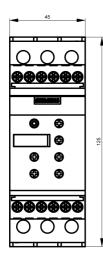
SIRIUS soft starter S0 12.5 A, 5.5 kW/400 V, 40 $^{\circ}\text{C}$ 200-480 V AC, 110-230 V AC/DC Screw terminals

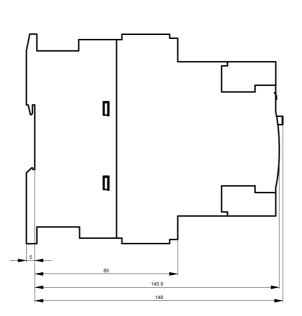
General technical data				
product brand name		SIRIUS		
product feature				
 integrated bypass contact system 		Yes		
thyristors		Yes		
product function				
 intrinsic device protection 		Yes		
 motor overload protection 		Yes		
 evaluation of thermistor motor protection 		No		
external reset		Yes		
 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 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	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	W	3 000		
• at 400 V	vv			
— at standard circuit at 40 °C rated value	W	5 500		
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		

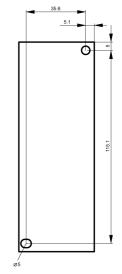
adjustable motor current for motor overload protection minimum rated value	А	5		
continuous operating current [% of le] at 40 °C	%	115		
power loss [W] at operational current at 40 °C during operation typical	W	2		
Control circuit/ Control				
type of voltage of the control supply voltage		AC/DC		
control 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				

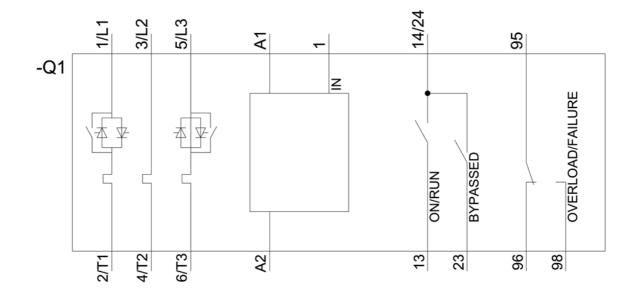
 finely stranded 	with core end processin	a		2x (0.5 1.5	mm²)			
	finely stranded with core end processing type of connectable conductor cross-sections at AWG							
cables								
 for auxiliary con 	 for auxiliary contacts 			2x (20 14)	2x (20 14) 2x (20 16)			
	• for auxiliary contacts finely stranded with core end			2x (20 16)				
processing	processing							
Ambient conditions								
	at height above sea lev	/el	m	5 000				
environmental cate								
	 during transport acc. to IEC 60721 				2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)			
 during storage 	acc. to IEC 60721				1K6 (only occasional condensation), 1C2 (no salt mist),			
e during oppratio	on and to IEC 60721				1S2 (sand must not get inside the devices), 1M4			
	on acc. to IEC 60721			3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6				
ambient temperatur	.e				0	,,		
 during operatio 	n		°C	-25 +60				
 during storage 			°C	-40 +80				
derating temperatur	re		°C	40				
	on the front acc. to IEC	60529		IP20				
	the front acc. to IEC 6			finger-safe, fo	or vertical contact fro	om the front		
Certificates/ approva								
						For use in hazard-		
General Product A	pproval				EMC	ous locations		
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Declaration of	Test Certificates		м	arine / Shipping				
Conformity								
	Special Test Cartific	Type Test Ca	rtific		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			
((Special Test Certific- ate	Type Test Cer ates/Test Re		Lloyds	(33)	Anna 1		
	<u></u>	<u></u>		Register		DNV-GL		
EG-Konf.				LRS	PRS	DAVOLCONOR		
other	Railway							
Confirmation	Confirmation							
UL/CSA ratings								
	performance [hp] for 3	-phase AC						
motor								
• at 220/230 V								
— at standar	rd circuit at 50 °C rated v	alue	hp	3				
• at 460/480 V								
— 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.s	https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4024-1BB14							
Cax online generate	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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