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 designation		Soft starter
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
blocking voltage of the thyristor maximum	V	1 600
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		
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

adjustable motor current for motor overload protection minimum rated value	A	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	_	SO
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		1
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		
• solid		2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²
 finely stranded with core end processing 		2x (1 2.5 mm²), 2x (2.5 6 mm²)
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal		
 using the front clamping point 		1x 8, 2x (16 10)
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
 finely stranded with core end processing 		2x (0.5 1.5 mm²)
type of connectable conductor cross-sections for AWG cables		
 for auxiliary contacts 		2x (20 14)

processing	acts finely stranded with	core end		2x (20 16)		
Ambient conditions						
installation altitude at	height above sea leve	I	m	5 000		
environmental catego	ry					
 during transport 	according to IEC 60721			2K2, 2C1, 2S1,	2M2 (max. fall height 0.3	im)
 during storage according to IEC 60721 				1K6 (only occasional condensation), 1C2 (no salt mist), 1S2		
during operation according to IEC 60721				(sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist)		M4
				3S2 (sand must	t not get into the devices)	, 3M6
ambient temperature						
 during operation 			°C	-25 +60		
 during storage 			°C	-40 +80		
derating temperature	erating temperature			40		
protection class IP or	on class IP on the front according to IEC 60529			IP20		
touch protection on the front according to IEC 60529				finger-safe, for	vertical contact from the f	ront
Environmental footprin	t			-		
Environmental Product				Yes		
global warming potentia			kg	121		
		facturing	-	4.24		
0 0.	al [CO2 eq] during manu	laotuning	kg			
	al [CO2 eq] during sales		kg	0.207		
	al [CO2 eq] during opera		kg	117		
• •	al [CO2 eq] after end of I	ife	kg	-0.229		
UL/CSA ratings			_			
yielded mechanical p	erformance [hp] for 3-p	hase AC motor				
 at 220/230 V 						
— at standard	circuit at 50 °C rated va	lue	hp	3		
 at 460/480 V 						
— at standard	circuit at 50 °C rated va	lue	hp	7.5		
	liary contacts accordin			B300 / R300		
Approvals Certificates		giool		2000711000		
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General Product App	roval					EMV
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ccc	EG-Konf.			UL		RCM
CCC		s locations	Test	UL		RCM
EMV	EG-Kenf. For use in hazardou	s locations	Test	UL Certificates		RCM Marine / Shipping
		s locations			Type Test Certific-	RCM Marine / Shipping
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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)

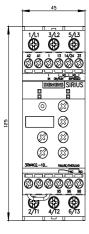
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4024-1BB14

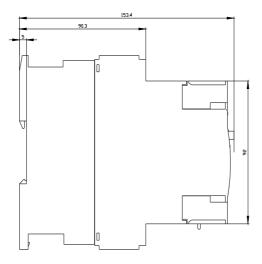
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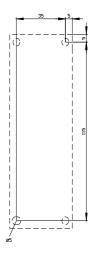
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4024-1BB14

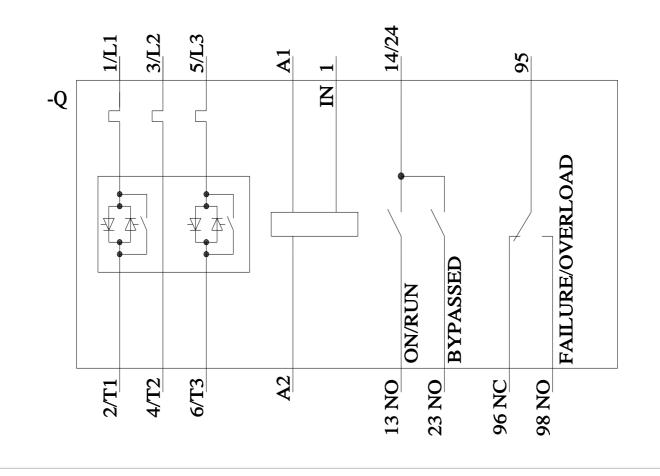
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4024-1BB14

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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