SIEMENS

Data sheet

3RW4024-2BB14



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 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	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 at 400 V 	W	3 000
 — 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	%	10

standard circuit minimum load [%] adjustable motor current for motor overload protection minimum rated value		
adjustable motor current for motor overload	-	
	%	20
	A	5
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	2
operation typical		-
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	150
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		
		anning loaded tormingle
type of electrical connection		spring-loaded terminals
type of electrical connection • for main current circuit		spring-loaded terminals
 type of electrical connection for main current circuit for auxiliary and control circuit 	_	spring-loaded terminals
type of electrical connection for main current circuit for auxiliary and control circuit number of NC contacts for auxiliary contacts	_	0
type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	-	
type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		0 2 1
type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front		0 2

	lomping point			1,0 0,0 (10	10)	
using the front of connectable		ctions for		1x 8, 2x (16	. 10)	
type of connectable main contacts	conductor cross-see					
 solid 				1 10 mm²		
 finely stranded with core end processing 				1 6 mm²		
type of connectable						
auxiliary contacts						
 solid 	-			2x (0.25 2.	5 mm²)	
 finely stranded with core end processing 				2x (0.25 1.	5 mm²)	
type of connectable cables	conductor cross-see	ctions at AWG				
 for main contact 	ts			16 10, 1x 8		
 for auxiliary cor 	itacts			2x (24 14)		
Ambient conditions						
installation altitude	at height above sea l	evel	m	5 000		
environmental categ	-					
-	t acc. to IEC 60721			2K2, 2C1, 2S	1, 2M2 (max. fall heigh	t 0.3 m)
 during storage a 				1K6 (only occ	asional condensation), ist not get inside the de	1C2 (no salt mist),
 during operation 	• during operation acc. to IEC 60721			3K6 (no forma	ation of ice, no condens and must not get into th	sation), 3C3 (no salt
ambient temperature	9			, ,	-	,
 during operation 			°C	-25 +60		
 during storage 			°C	-40 +80		
derating temperatur	6		°C	40		
protection class IP	•		Ū	IP20		
Certificates/ approval	9					
eertineates, appreva	5					
Conserved Dreadwatt Arr	manual					ГИС
General Product Ap	proval					EMC
General Product Ap	proval	-				EMC
General Product Ap	proval			nr	ror	EMC
General Product Ap	proval	٩		FAC	FAC	EMC
General Product Ap				EAC	EAC	
General Product Ap		(U) UI	I	EAC	EAC	
General Product Ap		U) u		EAC	EAC	
(S) C		U u	l	EAC	EAC	EMC ECC RCM
General Product Ap	CCC	UL UL	Test	Certificates	EAC	RCM
For use in		offormity	Test	ERIC Certificates	EAC	EMC ECM RCM
For use in hazardous	CCC		Test	ERIC Certificates	EAC	RCM
For use in hazardous	Declaration of Cor	nformity <u>Miscellaneous</u>	Sr	<u>pecial Test</u>	EAC	RCM
For use in hazardous	CCC		Sr		Certificates/Test	RCM
For use in hazardous	Declaration of Cor		Sr	<u>pecial Test</u>	ERE <u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	RCM
For use in hazardous	Declaration of Cor C E		Sr	<u>pecial Test</u>	Certificates/Test	Marine / Shipping
For use in hazardous	Declaration of Cor C E		Sr	<u>pecial Test</u>	Certificates/Test	Marine / Shipping
For use in hazardous locations	Declaration of Cor C E	Miscellaneous	Sr	<u>pecial Test</u>	Certificates/Test	Marine / Shipping
For use in hazardous	Declaration of Cor C E		Sr	<u>pecial Test</u>	Certificates/Test	Marine / Shipping
For use in hazardous locations	Declaration of Cor C E	Miscellaneous	Sr	<u>pecial Test</u>	Certificates/Test	Marine / Shipping
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For use in hazardous locations	Declaration of Cor C E	Miscellaneous	Sr	<u>pecial Test</u>	Certificates/Test	Marine / Shipping
For use in hazardous locations	Declaration of Cor CCC CCC Declaration of Cor	Miscellaneous	Sr	<u>pecial Test</u>	Certificates/Test	Marine / Shipping
For use in hazardous locations	Declaration of Cor CCC Declaration of Cor CCC EG-Konf.	Miscellaneous	Sr	<u>pecial Test</u>	Certificates/Test	Marine / Shipping
For use in hazardous locations	Declaration of Cor CCC Declaration of Cor CCC EG-Konf.	Miscellaneous	Sr	<u>pecial Test</u>	Certificates/Test	Marine / Shipping

UL/CSA ratings	_	
yielded mechanical performance [hp] for 3-phase AC motor		
• at 220/230 V		
 — at standard circuit at 50 °C rated value 	hp	3
• at 460/480 V		
 — at standard circuit at 50 °C rated value 	hp	7.5

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=3RW4024-2BB14

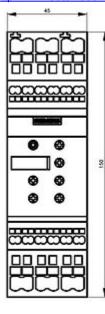
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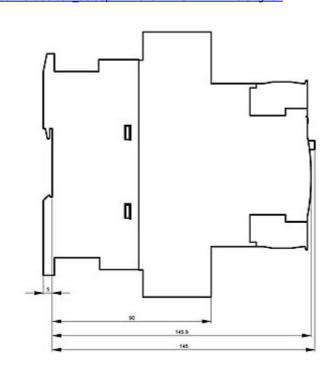
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4024-2BB14

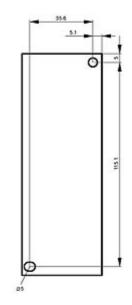
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

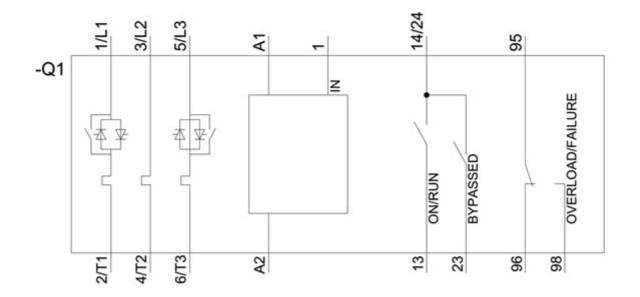
https://support.industry.siemens.com/cs/ww/en/ps/3RW4024-2BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4024-2BB14&lang=en









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