SIEMENS

Data sheet

3RW4024-1BB05



SIRIUS soft starter S0 12.5 A, 7.5 kW/500 V, 40 $^{\circ}\text{C}$ 400-600 V AC, 24 V AC/DC Screw terminals

product brand name		SIRIUS
product designation		Soft starter
product designation		
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
		Yes
 adjustable current limitation inside-delta circuit 		No
		No
product component motor brake output	V	
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 400 V		
— at standard circuit at 40 °C rated value	kW	5.5
• at 500 V		
— at standard circuit at 40 °C rated value	kW	7.5
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	400 600
relative negative tolerance of the operating voltage at standard circuit	%	-15
	%	10
relative positive tolerance of the operating voltage at standard circuit		
	%	20

continuous energing current [9/ of [a] at 40 °C	%	115
continuous operating current [% of le] at 40 °C		2
operation typical	VV	Z
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 rated value	V	24
• at 60 Hz rated value	V	24
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 rated value	V	24
relative negative tolerance of the control supply voltage at DC	%	-20
relative positive tolerance of the control supply voltage at DC	%	20
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° to the total mounting surface +/- 10° to total mounting surface +/- 10° to total mounting surface +/- 10° total mounti
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 an illiant and a fo		2x (20 14)
 for auxiliary contacts 		

 for auxiliary contacts finely stranded processing 	d with core end		2x (20 16)			
Ambient conditions						
installation altitude at height above sea		m	5 000			
environmental category			0.000			
• during transport according to IEC 6	0721		212 201 28	1 2M2 (max_fall beight 0 3	(m)	
• • •				2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2		
during storage according to IEC 60721				(sand must not get inside the devices), 1M4		
during operation according to IEC 60721			3K6 (no forma	3K6 (no formation of ice, no condensation), 3C3 (no salt mist		
ambient temperature			3S2 (sand mu	ist not get into the devices)	, 3M6	
ambient temperature		°C	25 100			
during operation		°C	-25 +60			
during storage		°C	-40 +80			
derating temperature		°C	40			
protection class IP on the front according to IEC 60529			IP20			
touch protection on the front according		finger-safe, fo	r vertical contact from the f	ront		
Environmental footprint						
Global Warming Potential [CO2 eq] total		kg	121			
Global Warming Potential [CO2 eq] during	g manufacturing	kg	4.24			
global warming potential [CO2 eq] during		kg	0.207			
Global Warming Potential [CO2 eq] during		kg	117			
Global Warming Potential [CO2 eq] after e		kg	-0.229			
о		ĸġ	-0.229			
UL/CSA ratings		_	_			
yielded mechanical performance [hp] for	or 3-phase AC motor					
• at 460/480 V						
 — at standard circuit at 50 °C rat 	ted value	hp	7.5			
• at 575/600 V						
— at standard circuit at 50 °C rat	ted value	hp	10			
contact rating of auxiliary contacts acc	ording to UL		B300 / R300			
Approvals Certificates						
Conoral Product Approval						
General Product Approval						
	Confirmation	n		•		
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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=3RW4024-1BB05

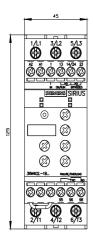
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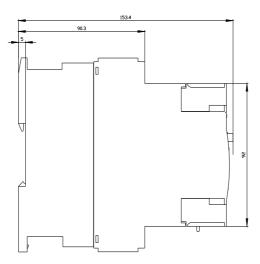
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4024-1BB05

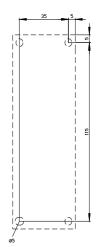
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

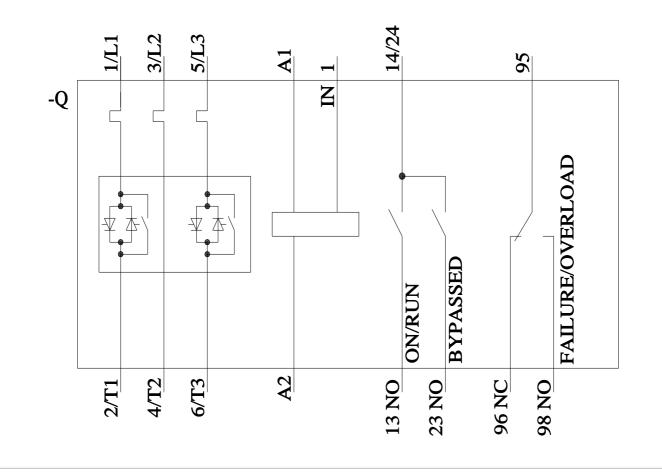
https://support.industry.siemens.com/cs/ww/en/ps/3RW4024-1BB05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4024-1BB05&lang=en









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