SIEMENS

Data sheet

3RW4024-2BB04



SIRIUS soft starter S0 12.5 A, 5.5 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 24 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 according to EN 61346-2		Q		
reference code according to DIN 40719 extended		G		
according to IEC 204-2 according to IEC 750 Power Electronics				
	_	Soft starter		
product designation		Solt statter		
operational current	•	10.5		
 at 40 °C rated value at 50 °C rated value 	A A	12.5 11		
at 50 °C rated value at 60 °C rated value	A	10		
	A	10		
yielded mechanical performance for 3-phase motors • at 230 V				
	kW	3		
 — at standard circuit at 40 °C rated value at 400 V 	KVV	5		
 at 400 v — at standard circuit at 40 °C rated value 	kW	5.5		
yielded mechanical performance [hp] for 3-phase AC	hp	3		
motor at 200/208 V at standard circuit at 50 °C rated value	пр	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	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	А	5		
protection minimum rated value				

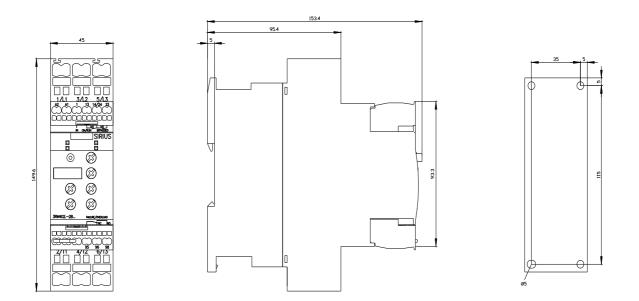
continuous operating current [% of le] at 40 °C power loss [W] at operational current at 40 °C during % 115 W 2

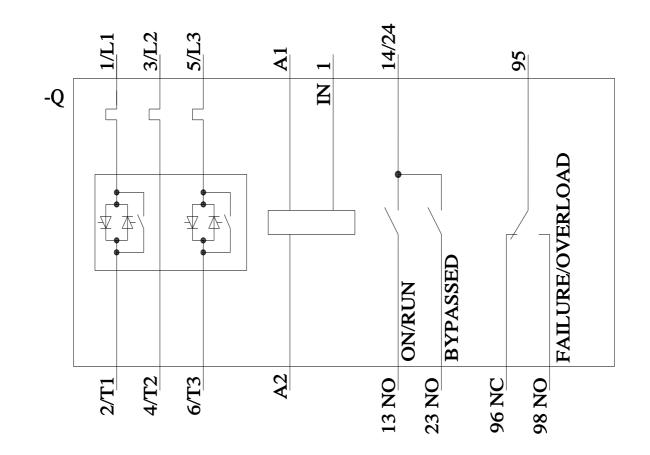
power loss [W] at operational current at 40 °C during operation typical	W	2
Control circuit/ Control		
type of voltage of the control supply voltage		AC/DC
control supply voltage frequency 1 rated value	Hz	50
control supply voltage frequency 2 rated value	Hz	60
relative negative tolerance of the control supply	%	-10
voltage frequency		
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	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		
type of electrical connection		
• for main current circuit		spring-loaded terminals
for auxiliary and control circuit		spring-loaded terminals
number of NC contacts for auxiliary contacts		0 2
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts		2
-		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 at 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 main contacts		
• solid		1 10 mm²
 finely stranded with core end processing 		1 6 mm²
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.25 2.5 mm²)

 finely stranded 	d with core end processir	ıg		2x (0.25 1.	5 mm²)		
	e conductor cross-sect	ions at AWG					
cables				10 10 1 0			
	for main contacts				16 10, 1x 8		
 for auxiliary co 	ontacts			2x (24 14)			
Ambient conditions							
	e at height above sea le	vel	m	5 000			
environmental cate							
	ort according to IEC 6072				2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
 during storage 	e according to IEC 60721			1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4			
 during operation 	on according to IEC 6072	21		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6			
ambient temperatu	re			1113(), 332 (36	and must not get into t	ne devices), sivio	
•			°C	-25 +60			
	during operation			-40 +80			
derating temperatu	during storage			40			
	on the front according	to IEC	°C	IP20			
60529	on the none according			11 20			
touch protection of	n the front according to	IEC 60529		finger-safe, fo	or vertical contact from	the front	
Certificates/ approva	als						
General Product A						EMC	
USA CSA				UL UL	LHL	RCM	
Declaration of Conformity	Test Certificates		Ма	rine / Shipping			
CE	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Ce</u> ates/Test Re		Llovd's Register		(DNV-GL)	
EG-Konf.				LRS	PRS	DWGLEDBAR	
othor	Deilway						
other	Railway						
Confirmation	Confirmation						
UL/CSA ratings							
motor	I performance [hp] for 3	3-phase AC					
• at 220/230 V							
 — at standard circuit at 50 °C rated value 		hp	3				

— at standard circuit at 50°C rated value	np	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 on the packaging					
https://support.industry.siemens.com/cs/ww/en/view/109813875					
Information- and Downloadcenter (Catalogs, Brochure https://www.siemens.com/ic10	s,)				
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4024-2BB04					
Cax online generator					

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4024-2BB04 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4024-2BB04 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4024-2BB04&lang=en





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