SIEMENS



Data sheet

3RW4027-2TB04



SIRIUS soft starter S0 32 A, 15 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 24 V AC/DC spring-type terminals Thermistor motor protection

General technical data		
product brand name		SIRIUS
product feature		
integrated bypass contact system		Yes
thyristors		Yes
product function		100
intrinsic device protection		Yes
motor overload protection		Yes
 evaluation of thermistor motor protection 		Yes
evaluation of thermistor motor protection external reset		Yes
		Yes
adjustable current limitation		
inside-delta circuit		No
product component motor brake output	V	NO 600
insulation voltage rated value	. V	
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 according to IEC 204-2 according to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
• at 40 °C rated value	А	32
• at 50 °C rated value	А	29
• at 60 °C rated value	А	26
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	kW	7.5
• at 400 V		
— at standard circuit at 40 °C rated value	kW	15
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	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	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

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adjustable motor current for motor overload protection minimum rated value	А	17
continuous operating current [% of le] at 40 °C	%	11
power loss [W] at operational current at 40 °C during operation typical	W	13
Control circuit/ Control		
type of voltage of the control supply voltage		AC
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	%	-1



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	%	-20
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	20
relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-20
relative positive tolerance of the control supply voltage at AC at 60 Hz	%	20
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		SO
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
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		$2y/4 = 2.5 \text{ mm}^2$ $2y/2.5 = 0.5 \text{mm}^2$ $y/2.5 = 0.5 \text{mm}^2$
solid		2x (1 2.5 mm ²), 2x (2.5 6 mm ²), max. 1x 10 mm ²
• finely stranded with core end processing type of connectable conductor cross-sections at AWG		2x (1 2.5 mm²), 2x (2.5 6 mm²)
cables for main contacts for box terminal		1+ 9 2+ (16 10)
using the front clamping point		1x 8, 2x (16 10)
type of connectable conductor cross-sections for main contacts		

• solid			11	h \dion	tudona
finely stranded with core end processing			1 ²	э личи	tudong
type of connectable conductor cross-sections for auxiliary contacts	or				cuuong
• solid			2x (0.25 2.	5 mm²)	
 finely stranded with core end processing 			2x (0.25 1.	5 mm²)	
type of connectable conductor cross-sections a cables	t AWG				
 for main contacts 			16 10, 1x 8	3	
 for auxiliary contacts 			2x (24 14)		
Ambient conditions					
installation altitude at height above sea level		m	5 000		
environmental category					
 during transport according to IEC 60721 			2K2, 2C1, 2S	31, 2M2 (max. fall heigh	nt 0.3 m)
during storage according to IEC 60721			1K6 (only oc	casional condensation) ust not get inside the d	, 1C2 (no salt mist),
• during operation according to IEC 60721			3K6 (no form	ation of ice, no conden and must not get into th	sation), 3C3 (no salt
ambient temperature					
 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 to IEC 6	60529		finger-safe, fo	or vertical contact from	the front
Certificates/ approvals					
General Product Approval			(ال س	EAC	
Test Certificates Mar	ine / Shipping				other
Type Test Certific- ates/Test Report Special Test Certific- ate	Llovd's Register uis		PRS	DNV-GL DNV-GL	<u>Confirmation</u>
Railway					

Confirmation

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	7.5	
• at 460/480 V			
— at standard circuit at 50 °C rated value	hp	20	
contact rating of auxiliary contacts according to UL		B300 / R300	
Further information			
Simulation Tool for Soft Starters (STS) <u>https://support.industry.siemens.com/cs/ww/en/view/101494917</u> Information- and Downloadcenter (Catalogs, Brochures,)			

https://www.siemens.com/ic10

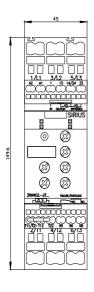
Industry Mall (Online ordering system)

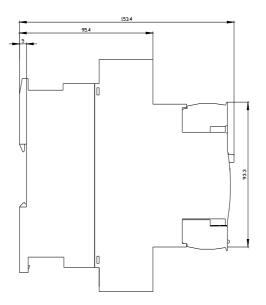
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4027-27 Cax online generator

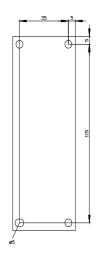
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4027-2TB04

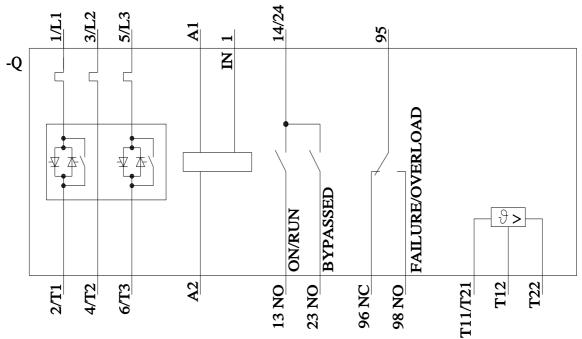
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4027-2TB04&lang=en











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