# **SIEMENS**

Data sheet 3RW40 27-1BB04

SIRIUS soft starter S0 32 A, 15 kW/400 V, 40  $^{\circ}$ C 200-480 V AC, 24 V AC/DC Screw terminals



General technical data	
Product brand name	SIRIUS
Product feature	
<ul> <li>integrated bypass contact system</li> </ul>	Yes
<ul><li>Thyristors</li></ul>	Yes
Product function	
<ul> <li>Intrinsic device protection</li> </ul>	Yes
<ul> <li>motor overload protection</li> </ul>	Yes
<ul> <li>Evaluation of thermistor motor protection</li> </ul>	No
External reset	Yes
Adjustable current limitation	Yes
• inside-delta circuit	No
Product component Motor brake output	No
Reference identifier acc. to DIN EN 61346-2	Q
Reference indentifier acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	G

Power Electronics	
Product designation	Soft starter

Operating current		
• at 40 °C rated value	Α	32
at 50 °C rated value	A	29
	A	26
• at 60 °C rated value	A .	20
Mechanical power output for three-phase motors		
• at 230 V	<b>NA</b> /	7.500
— at standard circuit at 40 °C rated value	W	7 500
• at 400 V		
— at standard circuit at 40 °C rated value	W	15 000
Yielded mechanical performance [hp] for three-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
Adjustable motor current for motor overload protection minimum rated value	Α	17
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	13
Control electronics		
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 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		S0	
Width	mm	45	
Height	mm	125	
Depth	mm	155	
Mounting type		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	
<ul><li>downwards</li></ul>	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
<ul> <li>for auxiliary and control current circuit</li> </ul>	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
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²)
Type of connectable conductor cross-sections at AWG conductors for main contacts for box terminal	
<ul> <li>using the front clamping point</li> </ul>	1x 8, 2x (16 10)
Type of connectable conductor cross-sections for auxiliary contacts	
• solid	2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)
Type of connectable conductor cross-sections at AWG conductors	
• for auxiliary contacts	2x (20 14)

• for auxiliary contacts finely stranded with core end processing

2x (20 16)		

Ambient conditions		
Installation altitude at height above sea level	m	5 000
Environmental category		
<ul> <li>during transport acc. to IEC 60721</li> </ul>		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
• during storage acc. to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during operation acc. to IEC 60721</li> </ul>		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
Ambient temperature		
<ul> <li>during operation</li> </ul>	°C	-25 <b>+</b> 60
<ul><li>during storage</li></ul>	°C	-40 <b>+</b> 80
Derating temperature	°C	40
Protection class IP		IP20

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General Product Approval	EMC	For use in
		hazardous
		locations













Declaration of Conformity	Test Certificates	3	Shipping App	proval	
$\epsilon$	Special Test Certificate	Type Test Certificates/Test Report	GL®	Lloyd's Register	
EG-Konf.			GL	LRS	PRS

## other

Confirmation

# UL/CSA ratings

Yielded mechanical performance [hp] for three-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)

https://support.industry.siemens.com/cs/ww/en/view/101494917

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

### Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4027-1BB04

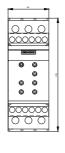
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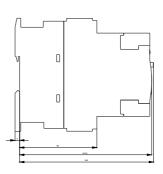
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4027-1BB04

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

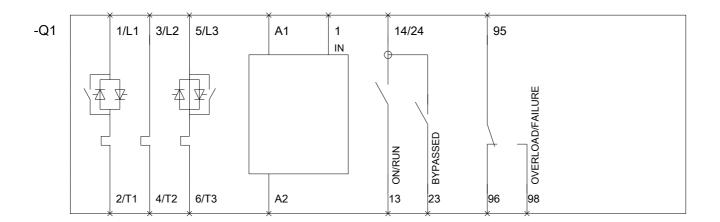
https://support.industry.siemens.com/cs/ww/en/ps/3RW4027-1BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4027-1BB04&lang=en









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