# **SIEMENS**

Data sheet 3RW40 28-1BB04



SIRIUS SOFT STARTER, S0, 38A, 18.5KW/400V, 40 DEGR., AC 200-480V, AC/DC 24V, SCREW TERMINALS

General technical data			
product brandname	SIRIUS		
<ul> <li>Product equipment Integrated bypass contact system</li> </ul>	Yes		
<ul> <li>Product feature 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		
Equipment marking acc. to DIN EN 61346-2	Q		
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	G		
Power Electronics			
Product designation	Soft starter		

Α	38
Α	34
Α	31
W	11 000
W	18 500
hp	10
Hz	50 60
%	-10
%	10
V	200 480
%	-15
%	10
%	20
Α	23
%	115
% W	115 19
	19
W	AC/DC
W	19 AC/DC 50
Hz Hz	19 AC/DC 50 60
Hz Hz Hz %	19 AC/DC 50 60 -10
Hz Hz Hz %	19 AC/DC 50 60 -10
Hz Hz %	AC/DC 50 60 -10
Hz Hz %	AC/DC 50 60 -10
Hz Hz % V V	AC/DC 50 60 -10 10 24 24
	A A W W hp Hz % % %

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				
Cina of analysis assigned dayles		00		

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	$2x (1 \dots 2.5 \text{ mm}^2), 2x (2.5 \dots 6 \text{ mm}^2), \text{ max. } 1x \ 10 \text{ mm}^2$
<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				
● during transport 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 storage 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		
<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		

## Certificates/approvals

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

 $\frac{\text{Environmental}}{\text{Confirmations}}$ 

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	10
● at 460/480 V		
— at standard circuit at 50 °C rated value	hp	25
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=3RW4028-1BB04

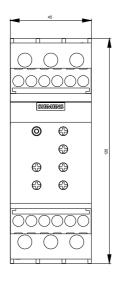
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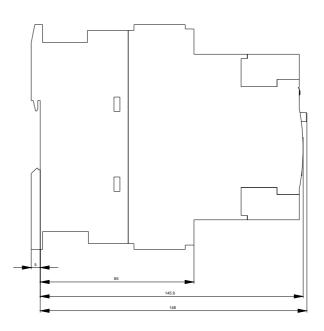
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4028-1BB04

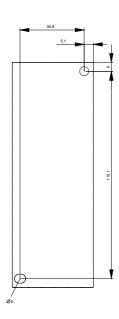
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

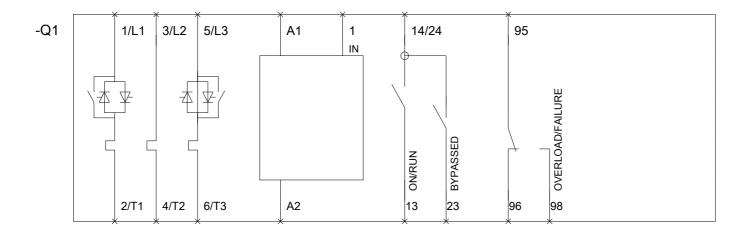
https://support.industry.siemens.com/cs/ww/en/ps/3RW4028-1BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4028-1BB04&lang=en









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