## **SIEMENS**

Data sheet 3RW3028-2BB04



SIRIUS soft starter S0 38 A, 18.5 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		No		
<ul> <li>motor overload protection</li> </ul>		No		
<ul> <li>evaluation of thermistor motor protection</li> </ul>		No		
external reset		No		
adjustable current limitation		No		
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 acc. to DIN EN 61346-2	-	Q		
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G		
Power Electronics				
product designation		Soft starter		
operational current				
<ul> <li>at 40 °C rated value</li> </ul>	Α	38		
<ul> <li>at 50 °C rated value</li> </ul>	Α	34		
<ul> <li>at 60 °C rated value</li> </ul>	Α	31		
yielded mechanical performance for 3-phase motors				
• at 230 V				
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	W	11 000		
• at 400 V				
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	W	18 500		
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	10		
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 [%]	%	10		

continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	19
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      at 60 Hz rated value	V	24
relative negative tolerance of the control supply	. v	-15
voltage at AC at 50 Hz		
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	%	-15
relative positive tolerance of the control supply voltage at DC	%	10
display version for fault signal		red
Mechanical data		
size of engine control device		S0
width	. mm	45
height	mm	150
depth	mm	150
fastening method		screw and snap-on mounting
mounting position		With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back
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		enring loaded terminals
		spring-loaded terminals
for auxiliary and control circuit    Description   Control   Control		spring-loaded terminals
number of NC contacts for auxiliary contacts		0
number of NO contacts for auxiliary contacts		1
number of CO contacts for auxiliary contacts		0
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)
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		
<ul> <li>using the front clamping point</li> </ul>		1x 8, 2x (16 10)
type of connectable conductor cross-sections for		
main contacts		
<ul><li>solid</li></ul>		1 10 mm²
finely stranded with core end processing		1 6 mm²

auxiliary contacts		
• solid		2x (0.25 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.25 1.5 mm²)
type of connectable conductor cross-sections at AWG cables		
<ul> <li>for main contacts</li> </ul>		16 8
<ul> <li>for auxiliary contacts</li> </ul>		2x (24 14)
Ambient conditions		
installation altitude at height above sea level	m	5 000
environmental category		
<ul> <li>during transport acc. to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
• during storage acc. to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<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 +60
<ul> <li>during storage</li> </ul>	°C	-40 +80
derating temperature	°C	40
protection class IP on the front acc. to IEC 60529		IP20
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front
Certificates/ approvals		











**EMC** 



**Declaration of** 

Conformity

Test Certificates other

**General Product Approval** 

Type Test Certificates/Test Report

Miscellaneous

Confirmation

UL/CSA ratings				
yielded mechanical performance [hp] for 3-phase AC motor				
• at 220/230 V				
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	10		
• at 460/480 V				
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	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,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3028-2BB04

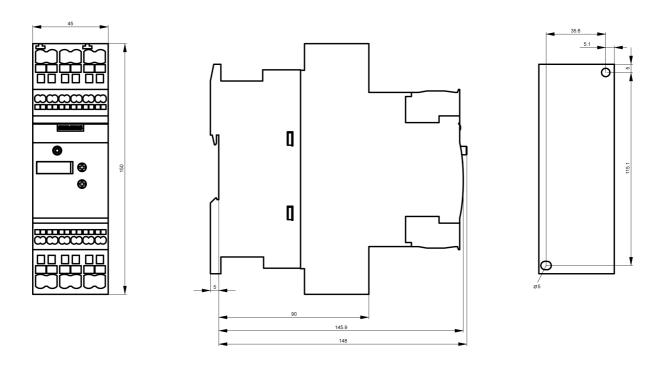
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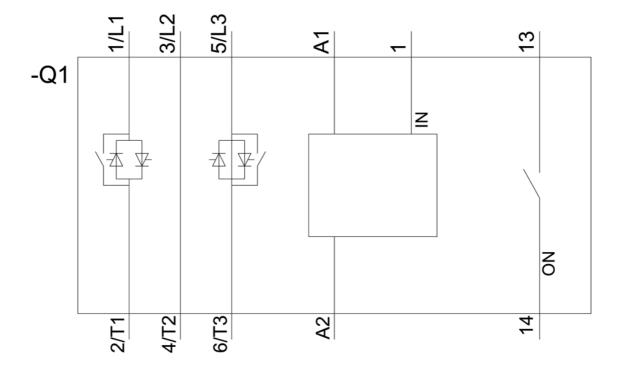
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3028-2BB04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW3028-2BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3028-2BB04&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3028-2BB04&lang=en</a>





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