# **SIEMENS**

## Data sheet

## 3RW30 28-2BB04



SIRIUS SOFT STARTER, SIZE S0, 38A, 18.5KW/400V, 40 DEGREES, 200-480V AC, 24V AC/DC, SPRING-LOADED TERMINALS

General technical data					
product brandname	SIRIUS				
<ul> <li>Product equipment Integrated bypass contact</li> </ul>	Yes				
system					
<ul> <li>Product feature Thyristors</li> </ul>	Yes				
Product function					
<ul> <li>Intrinsic device protection</li> </ul>	No				
<ul> <li>motor overload protection</li> </ul>	No				
<ul> <li>Evaluation of thermistor motor protection</li> </ul>	No				
External reset	No				
<ul> <li>Adjustable current limitation</li> </ul>	No				
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	G				
according to IEC 204-2 acc. to IEC 750					
Power Electronics					
Product designation	Soft starter				

Operating current	_	
• at 40 °C rated value	А	38
• at 50 °C rated value	А	34
• at 60 °C rated value	А	31
Mechanical power output for three-phase motors	-	
• at 230 V		
— at standard circuit at 40 °C rated value	W	11 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	18 500
Yielded mechanical performance [hp] for three-phase	hp	10
AC motor at 200/208 V at standard circuit at 50 °C		
rated value		
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	%	-15
at standard circuit		
Relative positive tolerance of the operating voltage at standard circuit	%	10
Minimum load [% of IM]	%	10
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	19
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	%	-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
÷		

voltage at DC		
Display version for fault signal		red
lechanical data		
Size of engine control device		SO
Width	mm	45
Height	mm	150
Depth	mm	150
Mounting type		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		
<ul> <li>for main current circuit</li> </ul>		spring-loaded terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>		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)
<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 main contacts		
• solid		1 10 mm²
<ul> <li>finely stranded with core end processing</li> </ul>		1 6 mm²
Type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.25 2.5 mm²)
		2x (0.25 1.5 mm²)

<ul> <li>for main contact</li> </ul>				16 8		
<ul> <li>for auxiliary cor</li> </ul>	ntacts			2x (24 1	4)	
Ambient conditions						
Installation altitude at	t height above sea le	vel	m	5 000		
Environmental catego	ory					
<ul> <li>during transpor</li> </ul>	t acc. to IEC 60721					condensation), 3C3 (no ot get into the devices),
• during storage	acc. to IEC 60721					condensation), 3C3 (no ot get into the devices),
<ul> <li>during operatio</li> </ul>	n acc. to IEC 60721					condensation), 3C3 (no ot get into the devices),
Ambient temperature	)					
<ul> <li>during operatio</li> </ul>	n		°C	-25 +60		
<ul> <li>during storage</li> </ul>			°C	-40 +80		
Derating temperature	•		°C	40		
Protection class IP				IP20		
Certificates/approva	ls					
General Product	Approval				EMC	Declaration of Conformity
ccc	CSA			EHC	C-Tick	EG-Konf.
Test Certificates	other					
<u>Type Test</u> Certificates/Test <u>Report</u>	Miscellaneous	Environmer Confirmatio		<u>Confirmation</u>		

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)

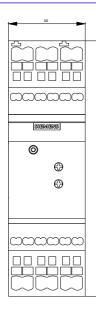
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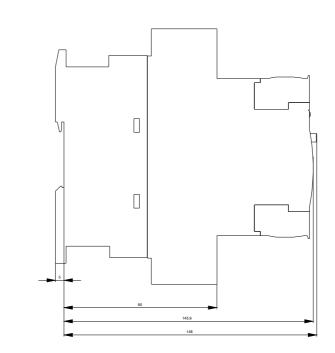
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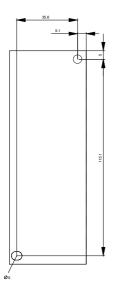
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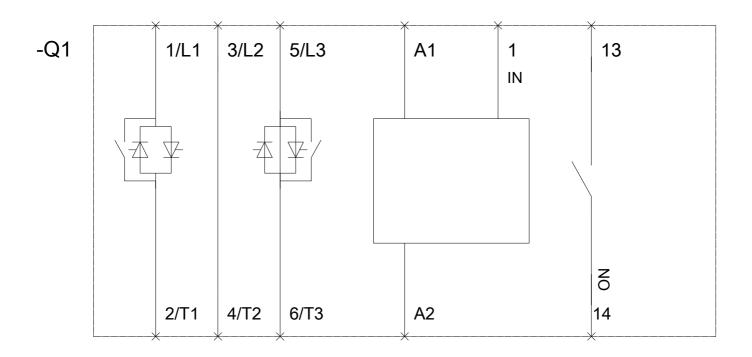
#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW3028-2BB04

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









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