## **SIEMENS**



Data sheet 3RW4028-1TB04



SIRIUS soft starter S0 38 A, 18.5 kW/400 V, 40  $^{\circ}\text{C}$  200-480 V AC, 24 V AC/DC Screw terminals Thermistor motor protection

General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
• thyristors		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>		Yes
external reset		Yes
<ul> <li>adjustable current limitation</li> </ul>		Yes
• 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 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	Α	38
<ul> <li>at 50 °C rated value</li> </ul>	Α	34
at 60 °C rated value	А	31
yielded mechanical performance for 3-phase motors  ● at 230 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	kW	11
• at 400 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	18.5
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 [%]	%	20

adjustable motor current for motor overload	А	23
protection minimum rated value	- 0/	) dientudong
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	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		S0
width	mm	45
height	mm	125
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		screw-type terminals
for auxiliary and control circuit		screw-type terminals
number of NC contacts for auxiliary contacts	-	0
number of NO contacts for auxiliary contacts		1
number of CO contacts for auxiliary contacts 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
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		
using the front clamping point		1x 8, 2x (16 10)
type of connectable conductor cross-sections for		

• solid		2x (0 mm²)		
finely stranded with core end processing		2x (0 1.5 m n²)	nachur	
type of connectable conductor cross-sections at AWG cables		Mileli	Luuvny	
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)		
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		2x (20 16)		
Ambient conditions				
installation altitude at height above sea level	m	5 000		
environmental category				
<ul> <li>during transport according to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
<ul> <li>during storage according to IEC 60721</li> </ul>		1K6 (only occasional condensation), 1S2 (sand must not get inside the de		
<ul> <li>during operation according to IEC 60721</li> </ul>		3K6 (no formation of ice, no condense mist), 3S2 (sand must not get into the		
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 according to IEC 60529		IP20		
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front		
Certificates/ approvals				
General Product Approval			EMC	

Confirmation









**Test Certificates** Marine / Shipping other

Type Test Certificates/Test Report

**Special Test Certific**ate







Confirmation

## Railway

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				

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

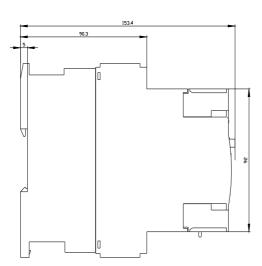
Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4028-1TB04

Cax online generator

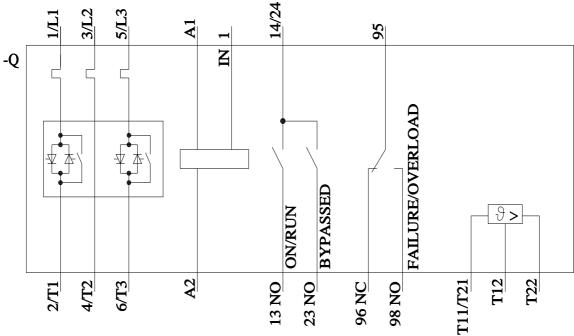
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfbfService&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RW4028-1TB04
Image database (product images, 2D dimension drawings, 3D models, device http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4028-1TB04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&lands-1D04&l











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