## **SIEMENS**

Data sheet 3RW4028-1BB05



SIRIUS soft starter S0 38 A, 22 kW/500 V, 40  $^{\circ}\text{C}$  400-600 V AC, 24 V AC/DC Screw terminals

General technical data				
	SIRIUS			
	Yes			
	Yes			
	Yes			
	Yes			
	No			
	Yes			
	Yes			
	No			
	No			
V	600			
	3, acc. to IEC 60947-4-2			
	Q			
	G			
	Soft starter			
Α	38			
Α	34			
Α	31			
W	18 500			
W	22 000			
Hz	50 60			
%	-10			
%	10			
V	400 600			
V %	400 600 -15			
	A A A W W Hz			

adjustable motor current for motor overload protection minimum rated value	Α	23
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	%	-10
voltage frequency	- %	10
relative positive tolerance of the control supply voltage frequency	70	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		
<ul> <li>for main current circuit</li> </ul>		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		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		
<ul><li>solid</li><li>finely stranded with core end processing</li></ul>		2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm² 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		( 2.0 ), 2 (2.0 0 IIIII )
using the front clamping point		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 cables		
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)
<ul> <li>for auxiliary contacts finely stranded with core end</li> </ul>		2x (20 16)
processing		
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)
<ul> <li>during storage acc. to IEC 60721</li> </ul>		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		
during operation	°C	-25 +60
during storage	°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
Cortificates/ approvals		

Certificates/ approvals

**General Product Approval** 

**EMC** 

For use in hazardous locations













**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping

**Miscellaneous** 



**Special Test Certific-**<u>ate</u>

Type Test Certificates/Test Report





Marine / Shipping

other



Confirmation

UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 460/480 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	25
● at 575/600 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	30
contact rating of auxiliary contacts according to UL		B300 / R300
Further information		

Simulation Tool for Soft Starters (STS)
<a href="https://support.industry.siemens.com/cs/ww/en/view/101494917">https://support.industry.siemens.com/cs/ww/en/view/101494917</a>

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=3RW4028-1BB05

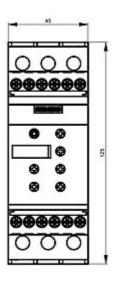
Cax online generator

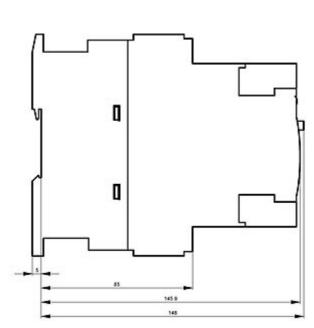
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4028-1BB05

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

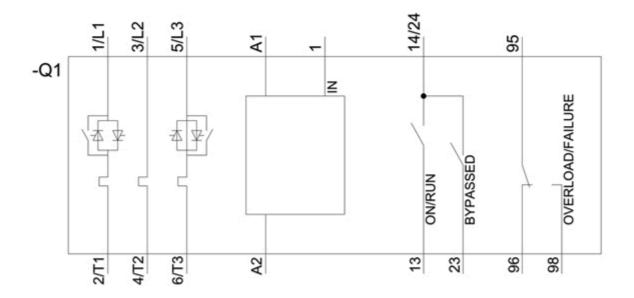
https://support.industry.siemens.com/cs/ww/en/ps/3RW4028-1BB05

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=3RW4028-1BB05&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4028-1BB05&lang=en</a>









last modified: 12/15/2020 ☑