## **SIEMENS**

Data sheet 3RW4028-1BB04



SIRIUS soft starter S0 38 A, 18.5 kW/400 V, 40 °C 200-480 V AC, 24 V AC/DC Screw terminals

General technical data		
product brand name		SIRIUS
product designation		Soft starter
product feature		
integrated bypass contact system		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>		No
<ul> <li>external reset</li> </ul>		Yes
adjustable current limitation		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
blocking voltage of the thyristor maximum	V	1 600
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		
operational current		
<ul> <li>at 40 °C rated value</li> </ul>	Α	38
• at 50 °C rated value	Α	34
at 60 °C rated value	Α	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 protection minimum rates of value continuous operating current (% of leg) at 40 °C c % 5 115    power loss (VI) a doperational current at 40 °C during operation hybrid control supply voltage frequency 2 rated value	adjustable motor current for motor overload protection		
power toss [W] at operational current at 40 °C during operation typical operation typical operation typical operation typical operation typical power for the control supply voltage of voltage of the control supply voltage frequency 2 rated value		Α	23
power toss [W] at operational current at 40 °C during operation typical operation typical operation typical operation typical operation typical power for the control supply voltage of voltage of the control supply voltage frequency 2 rated value		%	115
Special Circuit Control   Special Option   Special Circuit Control   Special Circuit Control   Special Circuit Control   Special Circuit Control   Special Circuit Circuit   Special Circuit   Spe	power loss [W] at operational current at 40 °C during		
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Fize   60			
relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency a 150 Hz rated value			
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* at 60 Hz rated value     * at 60 Hz rated value     * v 24     * relative negative tolerance of the control supply voltage at AC at 60 Hz rated value     * v 24     * v 20     * v		% 	10
* at 80 Hz rated value     * v	control supply voltage 1 at AC		
relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  display version for fault signal  Mochanical data  size of engine control device  width  mm  45  depth  mm  155  mm  155  20  S0  width  mm  155  screw and snap-on mounting  wire length maximum  required spacing with side-by-side mounting  * upwards  * at the side  * downwards  wire length maximum  mumber of poles for main current circuit  * for auxiliary and control circuit  * elote contacts for auxiliary contacts  number of NG contacts for box terminal  * using the front clamping point  type of connectable conductor cross-sections for Mix  cables for main contacts for box terminal  * using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  * cold  * (NG * 2.5 mm²), 2x (2.5 6 mm²)  * (x (1 2.5 mm²), 2x (2.5 6 mm²)  * (x (1 2.5 mm²), 2x (2.5 6 mm²)  * (x (2 2.5 mm²), 2x (2.5 6 mm²)  * (x (3 2.5	at 50 Hz rated value	V	24
AC at 50 HZ  relative positive tolorance of the control supply voltage at AC at 50 HZ  relative positive tolorance of the control supply voltage at AC at 50 HZ  relative positive tolorance of the control supply voltage at AC at 50 HZ  control supply voltage 1 at DC rated value  v 24  control supply voltage 1 at DC rated value  v 24  relative positive tolorance of the control supply voltage at DC  control supply voltage 1 at DC rated value  v 24  realized respective tolorance of the control supply voltage at DC  supply voltage 1 at DC rated value  v 20  cred  Mcchanical data  size of engine control device  width  mm 45  height  depth mm 125  depth mm 155  fastening method  mounting position  with additional fan: With vertical mounting surface +/-90" rolatable, with vertical mounting surface +/-90" rolatable, with vertical mounting surface +/-10" tolatable, with vertical mounting surface +/10" tolatable, with vertical mounting surface +/-	at 60 Hz rated value	V	24
AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz control supply voltage 1 at DC rated value  V 24 relative negative tolerance of the control supply voltage at DC relative negative tolerance of the control supply voltage at DC relative negative tolerance of the control supply voltage at DC relative negative tolerance of the control supply voltage at DC relative negative tolerance of the control supply voltage at DC  Mochanical data  size of engine control device  width  mm 45 height  mm 155 depth  mm 155 fastening method  mounting position  with additional fan: With vertical mounting surface +/-90° rolatable, with vertical mounting surface +/-90° rolatable, with vertical mounting surface +/-10° rolatable		%	-15
AC at 60 HZ control supply voltage 1 at DC rated value voltage 2 voltage 1 at DC rated value voltage 3 voltage 1 at DC rated value voltage 4 voltage 2 voltage 3 voltage 3 voltage 4 vol		%	10
AC at 60 Hz  control supply voltage 1 at DC rated value  relative negative tolerance of the control supply voltage at DC  relative negative tolerance of the control supply voltage at DC  display version for fault signal  Mechanical data  size of engine control device  width  height  mm		%	-15
control supply voltage 1 at DC rated value  velative negative tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  display version for fault signal  Mechanical data  size of engine control device  width  mm 45  height  depth  fastening method  mounting position  fastening method  mounting position  with additional fan: With vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-10° totatable, with vertical mounting surface +/-10° totatable surface +/-10° tota		%	10
relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC display version for fault signal  Mechanical data  size of engine control device width height mm 45 height mm 125 depth fastening method mounting position  with additional fan: With vertical mounting surface +/-90" rotatable, with vertical mounting surface +/-100" tolatable, with vertical mounting surface +/-100" tol		V	24
relative positive tolerance of the control supply voltage at DC display version for fault signal red  Machanical data  Size of engine control device SD	relative negative tolerance of the control supply voltage at		
display version for fault signal   red	relative positive tolerance of the control supply voltage at	%	20
Size of engine control device   Size of engine control devic			red
size of engine control device  width height depth mm 45  fastening method mounting position  With additional fan: With vertical mounting surface +/-90° rolatable, with vertical mounting surface +/-22,5° tiltable to the front and back Without additional fan: With vertical mounting surface +/-10° to art back Without additional fan: With vertical mounting surface +/-10° to art back Without additional fan: With vertical mounting surface +/-10° to rolatable, with vertical mounting surfa		_	icu
width height   mm   45 height   mm   125 fastening method   screw and snap-on mounting surface +/-90° rotalable, with vertical mounting surface +/-22.5° tillable to the front and back Without additional fan: With vertical mounting surface +/-10° to larbin, with vertical mounting surface +/-10° to larbin with vertical mounting surface +/-10° to larbin, with vertical mounting sur			20
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mounting position  With additional fan: With vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° to the front and back Without additional fan: With vertical mounting surface +/-10° t required spacing with side-by-side mounting  • upwards • at the side • downwards • mm  • do • downwards • mm  40  wire length maximum	•	111111	
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<ul> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>mm</li> <li>downwards</li> <li>mm</li> <li>40</li> <li>wire length maximum</li> <li>m</li> <li>300</li> <li>number of poles for main current circuit</li> <li>3</li> <li>Connections/ Terminals</li> <li>type of electrical connection</li> <li>for main current circuit</li> <li>screw-type terminals</li> <li>for auxiliary and control circuit</li> <li>screw-type terminals</li> <li>number of NC contacts for auxiliary contacts</li> <li>number of NO contacts for auxiliary contacts</li> <li>number of CO contacts for auxiliary contacts</li> <li>1</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections for AWG cables for main contacts for box terminal</li> <li>using the front clamping point</li> <li>using the front clamping point</li> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>solid</li> <li>2x (1 2.5 mm²), 2x (2.5 6 mm²)</li> <li>1x 8, 2x (16 10)</li> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>solid</li> <li>2x (0.5 2.5 mm²)</li> </ul>	mounting position		rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical mounting
<ul> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>mm</li> <li>downwards</li> <li>mm</li> <li>40</li> <li>wire length maximum</li> <li>m</li> <li>300</li> <li>number of poles for main current circuit</li> <li>3</li> <li>Connections/ Terminals</li> <li>type of electrical connection</li> <li>for main current circuit</li> <li>screw-type terminals</li> <li>for auxiliary and control circuit</li> <li>screw-type terminals</li> <li>number of NC contacts for auxiliary contacts</li> <li>number of NO contacts for auxiliary contacts</li> <li>number of CO contacts for auxiliary contacts</li> <li>1</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections for AWG cables for main contacts for box terminal</li> <li>using the front clamping point</li> <li>using the front clamping point</li> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>solid</li> <li>2x (1 2.5 mm²), 2x (2.5 6 mm²)</li> <li>1x 8, 2x (16 10)</li> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>solid</li> <li>2x (0.5 2.5 mm²)</li> </ul>	required spacing with side-by-side mounting		
• downwards     wire length maximum     m 300 number of poles for main current circuit  Connections/ Terminals  type of electrical connection     • for main current circuit     • for auxiliary and control circuit     • for auxiliary and control circuit     number of NC contacts for auxiliary contacts     number of NO contacts for auxiliary contacts     1 type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point     • solid     • finely stranded with core end processing     type of connectable conductor cross-sections for AWG cables for main contacts for box terminal     • using the front clamping point     • using the front clamping point     type of connectable conductor cross-sections for auxiliary contacts     • solid     2x (1 2.5 mm²), 2x (2.5 6 mm²)     1x 8, 2x (16 10)  type of connectable conductor cross-sections for auxiliary contacts     • solid     2x (0.5 2.5 mm²)		mm	60
wire length maximum number of poles for main current circuit  Connections/ Terminals  type of electrical connection	at the side	mm	15
number of poles for main current circuit  Connections/ Terminals  type of electrical connection	<ul><li>downwards</li></ul>	mm	40
number of poles for main current circuit  Connections/ Terminals  type of electrical connection	wire length maximum	m	300
type of electrical connection			3
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  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  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  2x (1 2.5 mm²), 2x (2.5 6 mm²)  1x 8, 2x (16 10)  type of connectable conductor cross-sections for auxiliary contacts  • solid  2x (0.5 2.5 mm²)	·		
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			screw-type terminals
number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  2 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  2x (1 2.5 mm²), 2x (2.5 6 mm²)  type of connectable conductor cross-sections for 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 auxiliary contacts  • solid  2x (0.5 2.5 mm²)			
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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  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  1  2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²  2x (1 2.5 mm²), 2x (2.5 6 mm²)  1x 8, 2x (16 10)  2x (0.5 2.5 mm²)	·		•
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  2x (1 2.5 mm²), 2x (2.5 6 mm²)  2x (1 2.5 mm²), 2x (2.5 6 mm²)  1x 8, 2x (16 10)  2x (0.5 2.5 mm²)	number of NC contacts for auxiliary contacts		0
solid     finely stranded with core end processing     type of connectable conductor cross-sections for AWG cables for main contacts for box terminal     using the front clamping point     type of connectable conductor cross-sections for auxiliary contacts     solid     2x (1 2.5 mm²), 2x (2.5 6 mm²)     1x (2.5 mm²), 2x (2.5 6 mm²)     1x (3.5 mm²), 2x (2.5 6 mm²)     1x (4 2.5 mm²), 2x (2.5 6 mm²)     1x (5 2.5 mm²)	number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts		0 2
finely stranded with core end processing      type of connectable conductor cross-sections for AWG cables for main contacts for box terminal      using the front clamping point      type of connectable conductor cross-sections for auxiliary contacts      solid      2x (1 2.5 mm²), 2x (2.5 6 mm²)      1x 8, 2x (16 10)  2x (0.5 2.5 mm²)	number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main		0 2
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  2x (0.5 2.5 mm²)	number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		0 2 1
<ul> <li>using the front clamping point</li> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>solid</li> <li>1x 8, 2x (16 10)</li> <li>2x (0.5 2.5 mm²)</li> </ul>	number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 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		0 2 1 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²
type of connectable conductor cross-sections for auxiliary contacts  • solid  2x (0.5 2.5 mm²)	number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 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 • finely stranded with core end processing type of connectable conductor cross-sections for AWG		0 2 1 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²
	number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		0 2 1 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm² 2x (1 2.5 mm²), 2x (2.5 6 mm²)
	number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 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  • finely stranded with core end processing type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point type of connectable conductor cross-sections for auxiliary		0 2 1 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm² 2x (1 2.5 mm²), 2x (2.5 6 mm²)
<ul> <li>■ interry stranged with core end processing</li> <li>ZX (0.5 1.5 mm²)</li> </ul>	number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 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  • finely stranded with core end processing type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point type of connectable conductor cross-sections for auxiliary contacts		0 2 1 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm² 2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10)
type of connectable conductor cross-sections for AWG cables	number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 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  • finely stranded with core end processing type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point type of connectable conductor cross-sections for auxiliary contacts		0 2 1 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm² 2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10)

<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), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during operation according to IEC 60721		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 according to IEC 60529		IP20
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front
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		
— at standard circuit at 50 °C rated value	hp	25
contact rating of auxiliary contacts according to UL		B300 / R300
Approvals Certificates		

**General Product Approval** 



Confirmation









For use in hazard-**EMV Test Certificates** Marine / Shipping ous locations



<u>KC</u>



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

Type Test Certificates/Test Report



Marine / Shipping Railway **Environment** 





Confirmation

Confirmation



Environmental Con-firmations

## Further information

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RW4028-1BB04

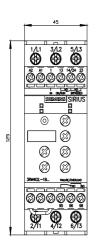
Cax online generator

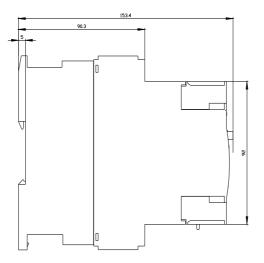
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4028-1BB04

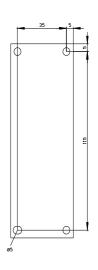
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

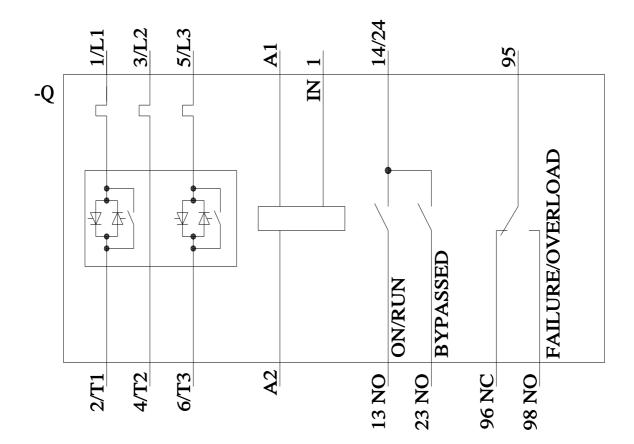
https://support.industry.siemens.com/cs/ww/en/ps/3RW4028-1BB04

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









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