## SIEMENS

## Data sheet

## 3RW4028-1BB04



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

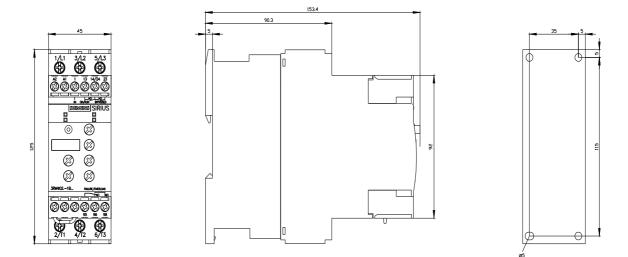
Constal technical data		
General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
• thyristors		Yes
product function		
intrinsic device protection		Yes
motor overload protection		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		No
external reset		Yes
adjustable current limitation		Yes
<ul> <li>inside-delta circuit</li> </ul>		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	А	38
<ul> <li>at 50 °C rated value</li> </ul>	А	34
<ul> <li>at 60 °C rated value</li> </ul>	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 protection minimum rated value	A	23

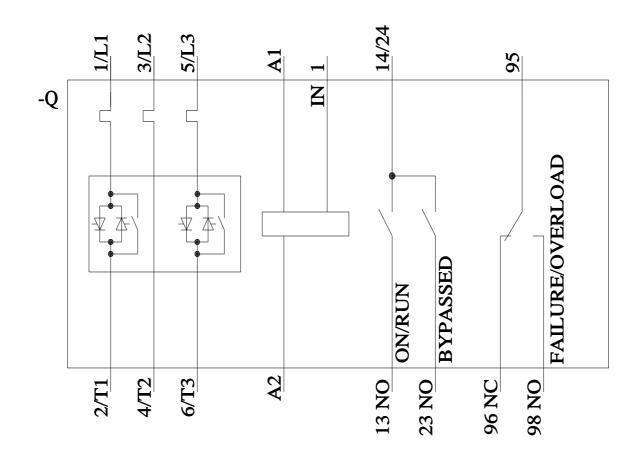
continuous operating current [% of le] at 40 °C power loss [W] at operational current at 40 °C during % 115 W 19

operation typical	VV	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		
relative positive tolerance of the control supply voltage frequency	%	10
control supply voltage 1 at AC		
<ul> <li>at 50 Hz rated value</li> </ul>	V	24
<ul> <li>at 60 Hz rated value</li> </ul>	V	24
relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-15
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	%	-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		SO
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
<ul> <li>downwards</li> </ul>	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     for auxiliany and control aircuit		screw-type terminals
for auxiliary and control circuit		screw-type terminals
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts		0 2
number of CO contacts for auxiliary contacts		2
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
<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 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 auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm <sup>2</sup> )
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 processing</li> </ul>				2x (20 16)		
Ambient conditions						
installation altitude at height above sea level environmental category • during transport according to IEC 60721 • during storage according to IEC 60721 • during operation according to IEC 60721		m	5 000 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt		1C2 (no salt mist), vices), 1M4	
				mist), 3S2 (sand must not get into the devices), 3N		
ambient temperature • during operation • during storage derating temperature protection class IP on the front according to IEC 60529		0° 0° 0°	-25 +60 -40 +80 40 IP20			
touch protection or	the front according to	IEC 60529		finger-safe, for vertical contact from the front		
Certificates/ approva	ls					
General Product A	pproval					EMC
S.	<u>Confirmation</u>	<u>س</u>		UL) u	EHC	RCM
Declaration of Conformity	Test Certificates		Mari	ne / Shipping		
CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Cer</u> ates/Test Rep		Lloyd's Register Lits	PRS	DNV-GL DNV-GL
other	Railway					
<u>Confirmation</u>	<u>Confirmation</u>					
UL/CSA ratings						
motor • at 220/230 V	rd circuit at 50 °C rated v		hp	10		
— at standard circuit at 50 °C rated value			hp	25 B200 / B200		

	ΠP	20			
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/1014945	<u>917</u>				
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=3RW4	<u>4028-1BB04</u>			
Cax online generator http://support.automation.siemens.com/WW/CAXorder/defau	lt.aspx?lang=	en&mlfb=3RW4028-1BB04			
Service&Support (Manuals, Certificates, Characteristics, https://support.industry.siemens.com/cs/ww/en/ps/3RW4028-					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)					





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