SIEMENS

Data sheet

3RW4027-1BB04



SIRIUS soft starter S0 32 A, 15 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 24 V AC/DC Screw terminals

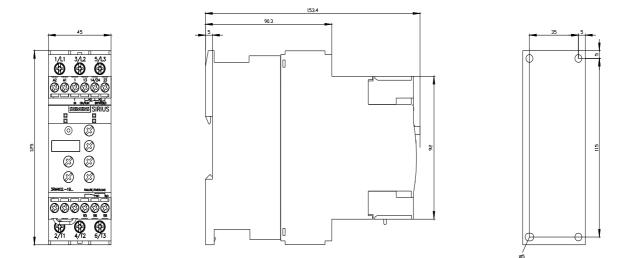
General technical data				
product brand name		SIRIUS		
product feature				
 integrated bypass contact system 		Yes		
thyristors		Yes		
product function				
 intrinsic device protection 		Yes		
 motor overload protection 		Yes		
 evaluation of thermistor motor protection 		No		
external reset		Yes		
 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		
reference code according to EN 61346-2		Q		
reference code according to DIN 40719 extended		G		
according to IEC 204-2 according to IEC 750				
Power Electronics		0.4.1.1		
product designation		Soft starter		
operational current				
• at 40 °C rated value	A	32		
• at 50 °C rated value	A	29		
• at 60 °C rated value	A	26		
yielded mechanical performance for 3-phase motors				
• at 230 V				
— at standard circuit at 40 °C rated value	kW	7.5		
• at 400 V				
— at standard circuit at 40 °C rated value	kW	15		
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	7.5		
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	А	17		

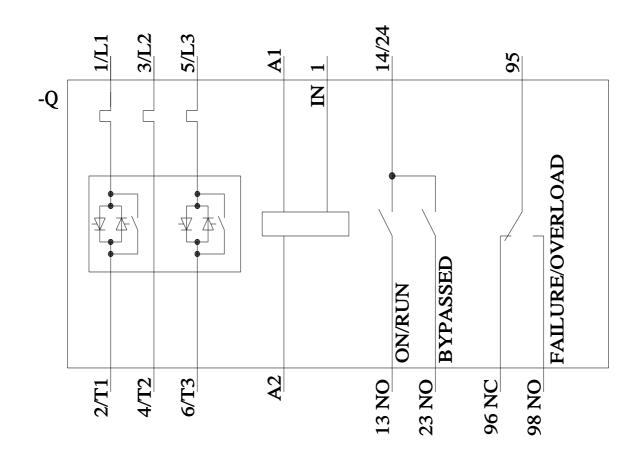
continuous operating current [% of le] at 40 °C power loss [W] at operational current at 40 °C during % 115 W 13

power loss [W] at operational current at 40 °C during operation typical	W	13
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	%	10
voltage frequency		
 control supply voltage 1 at AC at 50 Hz rated value 	V	24
at 50 Hz rated value	V	24
relative negative tolerance of the control supply	v %	-15
voltage at AC at 50 Hz		
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		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		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		
• solid		2x (1 2.5 mm ²), 2x (2.5 6 mm ²), max. 1x 10 mm ²
 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 auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
 finely stranded with core end processing 		2x (0.5 1.5 mm ²)
type of connectable conductor cross-sections at AWG cables		
 for auxiliary contacts 		2x (20 14)

 for auxiliary contacts finely stranded with core end processing 				2x (20 16)		
mbient conditions		_				
installation altitude	e at height above sea le	vel	m	5 000		
environmental cate	egory					
	ort according to IEC 6072	1		2K2, 2C1, 2S1, 2	M2 (max. fall heigh?	t 0.3 m)
 during storage 	e according to IEC 60721			1K6 (only occasional condensation), 1C2 (no sal		
				1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
 during operation 	ion according to IEC 6072	1				
ambient temperatu	ire			(ound	indot not got into th	
 during operation 			°C	-25 +60		
 during storage 			°C	-40 +80		
derating temperatu			°C	40		
	on the front according	to IEC		IP20		
60529				<i></i>		
-	n the front according to	IEC 60529		finger-safe, for ve	ertical contact from t	the front
ertificates/ approv	als					
General Product A	Approval					EMC
				(ĥ	EHL	
Declaration of	CCC Test Certificates		Marin	UL the / Shipping	EHL	RCM
Declaration of Conformity				e / Shipping	EHL	RCM
Conformity	Test Certificates Special Test Certificates ate	<u>Type Test Certific</u> ates/Test Repor	2 -	Lloyd's Vegister	EHL	RCM
	Special Test Certific-		2 -	te / Shipping	EHL	RCM
Conformity	Special Test Certific-		2 -	Lloyd's Vegister	EHL	RCM
Conformity CEG-Konf.	Special Test Certific- ate		2 -	Lloyd's Vegister	EHL	RCM
Conformity CEG-Konf.	<u>Special Test Certific-</u> <u>ate</u>		2 -	Lloyd's Vegister	EHL	RCM
Conformity CEG-Konf.	Special Test Certific- ate		2 -	Lloyd's Vegister	EHL	RCM
Conformity CEG-Konf.	Special Test Certific- ate		2 -	Lloyd's Vegister	EHL	RCM
Conformity CEG-Konf.	Special Test Certific- ate		2 -	Lloyd's Vegister	EHL	RCM
Conformity CEG-Konf.	Special Test Certific- ate		2 -	Lloyd's Vegister	EHL	RCM
Conformity CEG-Konf.	Special Test Certific- ate		2 -	Lloyd's Vegister	EHL	RCM

yielded mechanical performance [hp] for 3-phase AC motor					
• at 220/230 V					
 — at standard circuit at 50 °C rated value 	hp	7.5			
• at 460/480 V					
 — at standard circuit at 50 °C rated value 	hp	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/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=3RW4027-1BB04					
Cax online generator					
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4027-1BB04					
Service&Support (Manuals, Certificates, Characteristics, FAQs,)					
https://support.industry.siemens.com/cs/ww/en/ps/3RW4027-1BB04					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)					





last modified:

10/28/2022 🖸