SIEMENS

Data sheet

3RW4038-1BB04



SIRIUS soft starter S2 72 A, 37 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 according to IEC 204-2 according to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
• at 40 °C rated value	А	72
● at 50 °C rated value	А	62
● at 60 °C rated value	А	60
yielded mechanical performance for 3-phase motors		
• at 230 V		
 — at standard circuit at 40 °C rated value 	kW	22
● at 400 V		
— at standard circuit at 40 °C rated value	kW	37
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	20
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	35

continuous operating current [% of le] at 40 °C	%	115		
	% W			
power loss [W] at operational current at 40 °C during operation typical	VV	15		
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	%	10		
frequency	_			
control supply voltage 1 at AC	V	24		
at 50 Hz rated value	V			
• at 60 Hz rated value relative negative tolerance of the control supply voltage at	v %	24 -15		
AC at 50 Hz relative positive tolerance of the control supply voltage at	%	10		
AC at 50 Hz				
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		S2		
width	mm	55		
height	mm	160		
depth	mm	170		
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	30		
downwards	mm	40		
wire length maximum		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				
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		0 (4.5		
• solid		2x (1.5 16 mm ²)		
 finely stranded with core end processing 		0.75 25 mm ²		
stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		0.75 35 mm²		
		$2x(1.5, 16 \text{ mm}^2)$		
solid finally atranded with care and processing		2x (1.5 16 mm ²)		
 finely stranded with core end processing 		1.5 25 mm ²		
stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		1.5 35 mm²		
		2x (1.5 16 mm²)		
solidfinely stranded with core end processing		2x (1.5 16 mm ²)		

		0 (4 5 05	2)				
• stranded	-	2x (1.5 25 m	m²)				
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal							
using the back clamping point		16 2					
using the front clamping point		18 2					
using both clamping points			2x (16 2)				
type of connectable conductor cross-sections for auxiliary		2x (10 2)					
contacts							
• solid		2x (0.5 2.5 m	ım²)				
 finely stranded with core end processing 		2x (0.5 1.5 m	2x (0.5 1.5 mm ²)				
type of connectable conductor cross-sections for AWG cables			,				
 for auxiliary contacts 		2x (20 14)	2x (20 14)				
 for auxiliary contacts finely stranded with core end 		2x (20 16)					
processing		· · · ·					
Ambient conditions							
installation altitude at height above sea level	m	5 000					
environmental category							
 during transport according to IEC 60721 		2K2, 2C1, 2S1,	2M2 (max. fall height 0.3	m)			
 during storage according to IEC 60721 		1K6 (only occas	sional condensation), 1C2	2 (no salt mist), 1S2			
		(sand must not	(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	-25 +60				
during storage	°C	-40 +80	-40 +80				
derating temperature	°C	40	40				
protection class IP on the front according to IEC 60529		IP20	IP20				
touch protection on the front according to IEC 60529		finger-safe, for	finger-safe, for vertical contact from the front				
UL/CSA ratings							
yielded mechanical performance [hp] for 3-phase AC motor							
• at 220/230 V							
— at standard circuit at 50 °C rated value	hp	20					
● at 460/480 V							
— at standard circuit at 50 °C rated value	hp	40					
contact rating of auxiliary contacts according to UL	B300 / R300						
Approvals Certificates							
General Product Approval							
		<u>Confirmation</u>	CCC				
General Product Ap- proval EMV		For use in hazard- ous locations	Test Certificates				
EAL 💿 🔛		(Ex)	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>			
RCM		ATEX	Railway				
ina inte / Onipping		outor	Aunmay				
Jå Hovds DNV Urs		<u>Confirmation</u>	Special Test Certific- ate	<u>Confirmation</u>			

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=3RW4038-1BB04

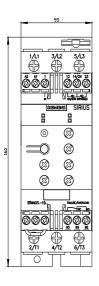
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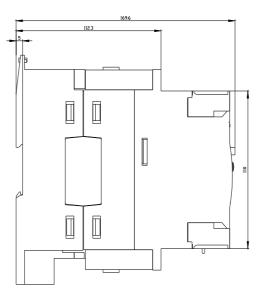
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4038-1BB04

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

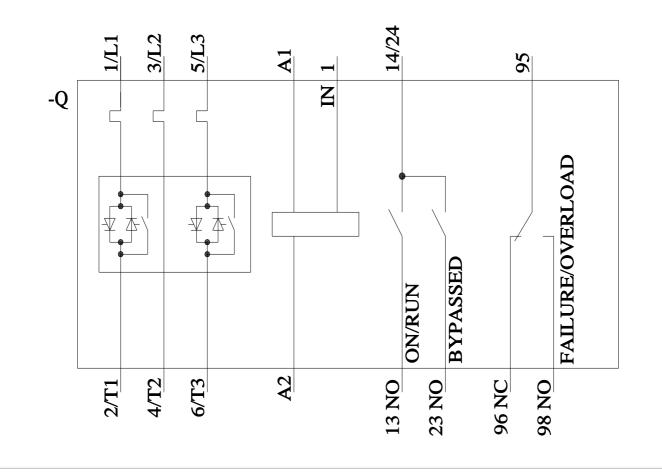
https://support.industry.siemens.com/cs/ww/en/ps/3RW4038-1BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4038-1BB04&lang=en









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