SIEMENS

Data sheet 3RW3038-1BB04



SIRIUS soft starter S2 72 A, 37 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		
 intrinsic device protection 		No
 motor overload protection 		No
 evaluation of thermistor motor protection 		No
external reset		No
adjustable current limitation		No
• 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		
 at 40 °C rated value 	Α	72
• at 50 °C rated value	Α	62
at 60 °C rated value	Α	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 [%]	%	10

continuous operating current [% of le] at 40 °C power loss [W] at operational current at 40 °C during operation typical Control circuit/ Control type of voltage of the control supply voltage control supply voltage frequency 1 rated value relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage 1 at AC • at 50 Hz rated value • at 60 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 relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative 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 control supply voltage 1 at DC rated value relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage 1 at DC rated value relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage 1 at DC rated value relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage 1 at DC rated value relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage 1 at DC rated value relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage 1 at DC rated value relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage 1 at DC rated value relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage 1 at DC rated value relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage 1 at DC rated value relative positive tolerance of the control supply voltage at AC at 60 Hz	
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DC display version for fault signal Mechanical data	
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 vertical mounting surface +/-10° rotatable, with vertical mounting surface +/-10° tiltable to the front and back	tical
required spacing with side-by-side mounting	
• upwards mm 60	
• at the side mm 30	
• 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	
number of NO contacts for auxiliary contacts	
number of CO contacts for auxiliary contacts 0	
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point	
• solid 2x (1.5 16 mm²)	
• finely stranded with core end processing 1.5 25 mm²	
• stranded 1.5 35 mm ²	
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point	
• solid 2x (1.5 16 mm²)	
• finely stranded with core end processing 1.5 25 mm²	
• stranded 1.5 35 mm²	
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points	
• solid 2x (1.5 16 mm²)	
• finely stranded with core end processing 2x (1.5 16 mm²)	
• stranded 2x (1.5 25 mm²)	

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 contacts		
• solid		2x (0.5 2.5 mm²)
 finely stranded with core end processing 		2x (0.5 1.5 mm²)
type of connectable conductor cross-sections for AWG cables		
 for auxiliary contacts 		2x (20 14)
 for auxiliary contacts finely stranded with core end processing 		2x (20 16)
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 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
Environmental footprint		
Global Warming Potential [CO2 eq] total	kg	159
Global Warming Potential [CO2 eq] during manufacturing	kg	22
global warming potential [CO2 eq] during sales	kg	0.289
Global Warming Potential [CO2 eq] during operation	kg	140
Global Warming Potential [CO2 eq] after end of life	kg	-3.2
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		
Concret Breduct Ampressel		

General Product Approval







Confirmation





EMV Test Certificates other



<u>KC</u>

Type Test Certificates/Test Report

Special Test Certificate

Miscellaneous

Confirmation

Railway Environment

Confirmation

Special Test Certificate



Siemens EcoTech



Environmental Confirmations

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=3RW3038-1BB04

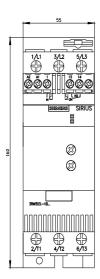
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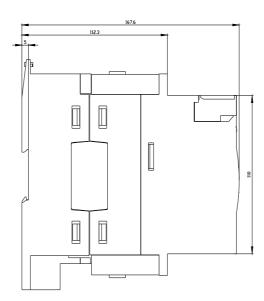
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW3038-1BB04}$

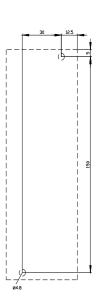
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

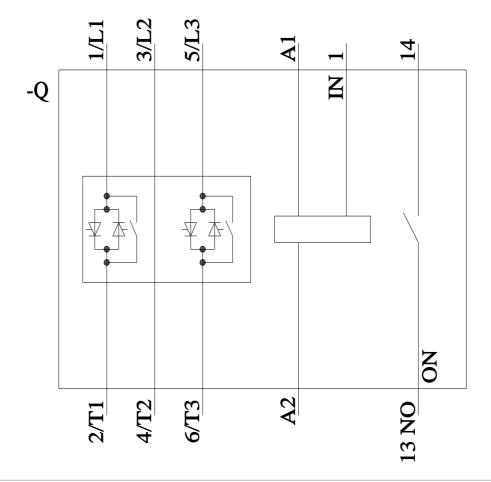
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3038-1BB04&lang=en









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