SIEMENS

Data sheet

3RW3038-2BB04



SIRIUS soft starter S2 72 A, 37 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 24 V AC/DC spring-type terminals

General technical data							
product brand name		SIRIUS					
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					
reference code acc. to DIN EN 61346-2		Q					
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. 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 	W	22 000					
• at 400 V							
— at standard circuit at 40 °C rated value	W	37 000					
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 10/ cf. lat at 40.00	0/	115
continuous operating current [% of le] at 40 °C		115
power loss [W] at operational current at 40 °C during operation typical	VV	15
Control circuit/ Control		and the second
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		24
at 50 Hz rated value	V V	24 24
at 60 Hz rated value	V	-10
relative negative tolerance of the control supply voltage at AC at 50 Hz	70	-10
relative positive tolerance of the control supply	%	10
voltage at AC at 50 Hz	-	
relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-10
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	%	-10
voltage at DC	- 0/	40
relative positive tolerance of the control supply voltage at DC	%	10
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 vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back
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	-	spring-loaded terminals
number of NC contacts for auxiliary contacts	-	0
number of NO contacts for auxiliary contacts	-	1
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 stranded 		1.5 25 mm² 1.5 35 mm²
stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		1.0
• solid		2x (1.5 16 mm²)
 finely stranded with core end processing 		1.5 25 mm ²
• stranded		1.5 35 mm²
type of connectable conductor cross-sections for		

main contacts for box terminal using both c points	lamping					
solid			2x (1.5 16	2x (1.5 16 mm²)		
 finely stranded with core end processing 			2x (1.5 16	2x (1.5 16 mm²)		
stranded			2x (1.5 25 mm ²)			
type of connectable conductor cross-sectio cables for main contacts for box terminal	ns at AWG					
 using the back clamping point 			16 2			
 using the front clamping point 			18 2	18 2		
 using both clamping points 			2x (16 2)			
type of connectable conductor cross-sectio auxiliary contacts	ns for					
• solid			2x (0.25 2.	2x (0.25 2.5 mm²)		
 finely stranded with core end processing 			2x (0.25 1.	2x (0.25 1.5 mm²)		
type of connectable conductor cross-sectio cables	ns at AWG					
 for auxiliary contacts 			2x (24 14)			
Ambient conditions						
installation altitude at height above sea leve		m	5 000			
environmental category						
 during transport acc. to IEC 60721 			2K2, 2C1, 2S	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
• during storage acc. to IEC 60721				1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
during operation acc. 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			
derating temperature			40	40		
protection class IP on the front acc. to IEC 6	60529		IP20	IP20		
touch protection on the front acc. to IEC 605	529		finger-safe, fo	or vertical contact from	the front	
Certificates/ approvals						
General Product Approval				EMC	Declaration of Conformity	
Test Certificates	other		EAC	Railway	C C EG-Konf.	
Special Test Certific- ate Type Test Certific- ates/Test Report	<u>Miscellaneou</u>	IS	Confirmation	Confirmation	Vibration and Shock	
IL/CSA ratings yielded mechanical performance [hp] for 3-p motor	bhase AC					
• at 220/230 V						
 at 220/250 V at standard circuit at 50 °C rated val 	ue	hp	20			
• at 460/480 V		ήh	20			

Further information

— at standard circuit at 50 $^\circ\mathrm{C}$ rated value

https://support.industry.siemens.com/cs/ww/en/view/101494917 Information- and Downloadcenter (Catalogs, Brochures,...)

contact rating of auxiliary contacts according to UL

Simulation Tool for Soft Starters (STS)

Industry Mall (Online ordering system)

https://www.siemens.com/ic10

hp

40

B300 / R300

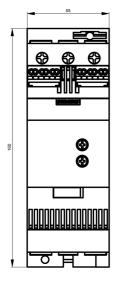
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3038-2BB04

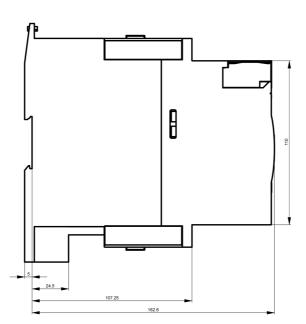
Cax online generator

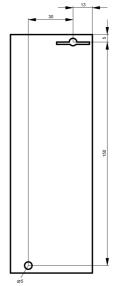
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3038-2BB04

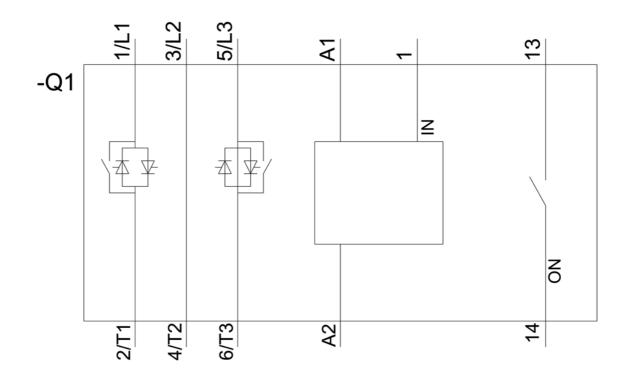
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW3038-2BB04

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









last modified:

12/15/2020 🖸