SIEMENS

Data sheet

3RW3038-1BB04



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 		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	%	10		
	%	10		

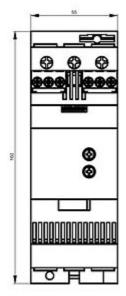
atandard airauit	_	
standard circuit	%	10
minimum load [%]		
continuous operating current [% of le] at 40 °C		115 15
power loss [W] at operational current at 40 °C during operation typical	VV	10
Control circuit/ Control	_	
type of voltage of the control supply voltage		AC/DC
control supply voltage frequency 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 frequency	%	10
control supply voltage 1 at AC		
• at 50 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	%	-10
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	%	-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 voltage at DC	%	-10
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 		screw-type 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 		1.5 25 mm ²
stranded		1.5 35 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
• solid		2x (1.5 16 mm²)

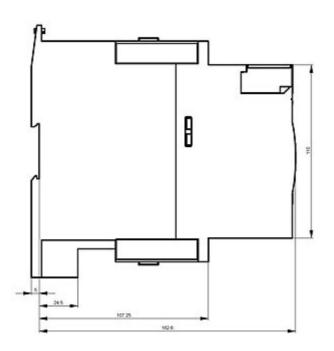
for the store dealer of the same and successing		4.5 05	,	
finely stranded with core end processing		1.5 25 mm ²		
stranded		1.5 35 mm²	•	
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points				
• solid		2x (1.5 16 r	mm²)	
 finely stranded with core end processing 		2x (1.5 16 r	,	
• stranded		2x (1.5 25 r		
type of connectable conductor cross-sections at 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 at AWG cables				
 for auxiliary contacts 		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 acc. to IEC 60721 		2K2, 2C1, 2S	1, 2M2 (max. fall heigh	it 0.3 m)
 during storage acc. to IEC 60721 			asional condensation)	
			ist not get inside the de	
during operation acc. to IEC 60721			ation of ice, no conden and must not get into th	
ambient temperature				
 during operation 	°C	-25 +60		
during storage	°C	-40 +80		
derating temperature	°C	40		
protection class IP on the front acc. to IEC 60529		IP20		
touch protection on the front acc. to IEC 60529		finger-safe, fo	r vertical contact from	the front
Certificates/ approvals				
General Product Approval			EMC	Declaration of Conformity
		EHC	RCM	<u>Miscellaneous</u>
Declaration of Conformity Test Certificates	oth	er		Railway
EG-Konf. <u>Special Test Certific-ate</u> <u>Type Test Certific-ate</u> <u>ates/Test Rep</u>		<u>liscellaneous</u>	<u>Confirmation</u>	<u>Confirmation</u>
Railway				

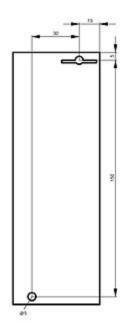
Vibration and Shock

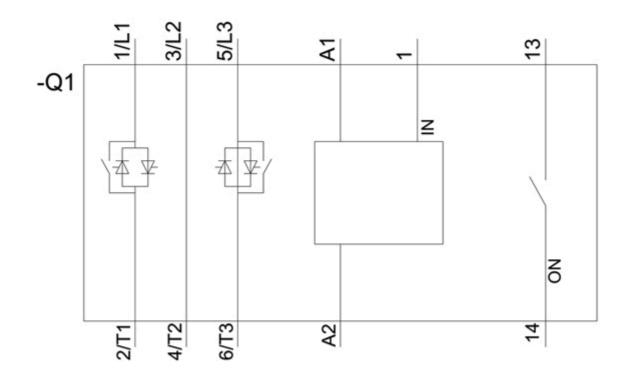
UL/CSA ratings				
yielded mechanical performance [hp] for 3-phase AC motor				
• at 220/230 V				
 — at standard circuit at 50 °C rated value 	hp	20		
• at 460/480 V				
- at standard circuit at 50 °C rated value	hp	40		
contact rating of auxiliary contacts according to UL		B300 / R300		
Further information				
Simulation Tool for Soft Starters (STS)				
https://support.industry.siemens.com/cs/ww/en/view/101494917				
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				
Cax online generator				
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3038-1BB04				
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW3038-1BB04				

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









last modified:

12/15/2020 🖸