SIEMENS

Data sheet

3RW4038-2BB04



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 		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 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 [%]	%	20

adjustable motor current for motor overload protection minimum rated value	А	35
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	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 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	%	-20
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	20
relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-20
relative positive tolerance of the control supply voltage at AC at 60 Hz	%	20
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	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		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 • finely stranded with core end processing		2x (1.5 16 mm²) 0.75 25 mm²
stranded		0.75 35 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point • solid		2x (1.5 16 mm ²)
+ 00llu		

 finely strande 	ed with core end processin	Ig		1.5 25 mm²		
 stranded 				1.5 35 mm²		
	le conductor cross-sect box terminal using both					
• solid				2x (1.5 16 m	1m²)	
	ed with core end processin	a		2x (1.5 16 m		
 stranded 		.9		2x (1.5 25 m		
	le conductor cross-sect ontacts for box terminal	ions at AWG		,	,	
 using the bac 	k clamping point			16 2		
 using the from 	nt clamping point			18 2		
 using both cla 	amping points			2x (16 2)		
type of connectab auxiliary contacts	le conductor cross-sect	ions for				
 solid 				2x (0.25 2.5	,	
	ed with core end processin	-		2x (0.25 1.5	mm²)	
cables	le conductor cross-sect	ions at AWG				
 for auxiliary c 	contacts			2x (24 14)		
Ambient conditions	•					
installation altitud	e at height above sea le	vel r	n	5 000		
environmental cat	egory					
 during transp 	ort acc. to IEC 60721			2K2, 2C1, 2S1	, 2M2 (max. fall heigh	t 0.3 m)
	e acc. to IEC 60721			1S2 (sand mus	isional condensation), at not get inside the de	evices), 1M4
 during operat 	tion acc. to IEC 60721				tion of ice, no condens nd must not get into th	
ambient temperate						
 during operat 	tion		С	-25 +60		
during storage			С	-40 +80		
derating temperat			С	40		
protection class IP on the front acc. to IEC 60529				IP20		
touch protection on the front acc. to IEC 60529				finger-safe, for	vertical contact from	the front
Certificates/ approv	als					
General Product	Approval				EMC	For use in hazard- ous locations
SP		(UL)	I	EAC	RCM	K ATEX
Declaration of Conformity	Test Certificates		Marir	ne / Shipping		
C C EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report	ļ	Lloyd's Kegister	PRS	DNV-GL
other	Railway					
Confirmation	Confirmation	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=3RW4038-2BB04

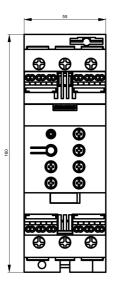
Cax online generator

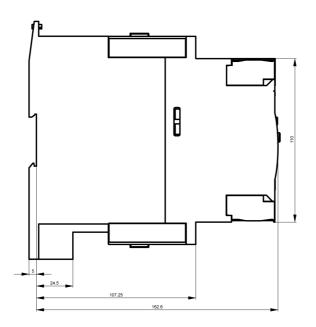
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4038-2BB04

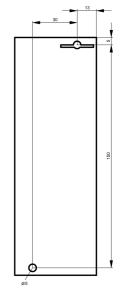
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

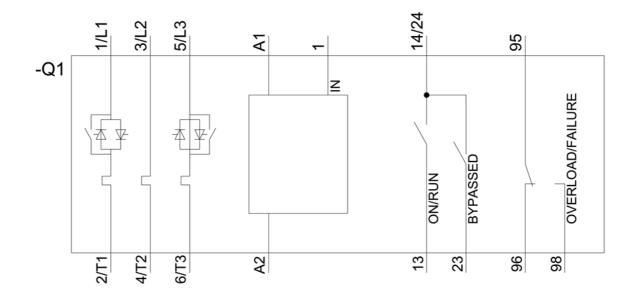
https://support.industry.siemens.com/cs/ww/en/ps/3RW4038-2BB04

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









last modified:

12/15/2020 🖸