SIEMENS

Data sheet

3RW4038-2BB05



SIRIUS soft starter S2 72 A, 45 kW/500 V, 40 $^\circ\text{C}$ 400-600 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 	A	72
 at 50 °C rated value 	A	62
• at 60 °C rated value	A	60
yielded mechanical performance for 3-phase motors		
• at 400 V		
 — at standard circuit at 40 °C rated value 	W	37 000
• at 500 V		
 — at standard circuit at 40 °C rated value 	W	45 000
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	400 600
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		2x (1.5 16 mm²)
 finely stranded with core end processing stranded 		0.75 25 mm² 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 r		
-	d with core end processing	g		1.5 25 mm ²		
stranded				1.5 35 mm²		
	le conductor cross-secti box terminal using both					
 solid 				2x (1.5 16 r	nm²)	
 finely strande 	d with core end processing	g		2x (1.5 16 r	nm²)	
 stranded 				2x (1.5 25 r	nm²)	
cables for main co	le conductor cross-secti ntacts for box terminal	ons at AWG				
•	k clamping point			16 2		
-	t clamping point			18 2		
 using both cla 				2x (16 2)		
	le conductor cross-secti	ons for				
auxiliary contacts				0 (0.05 0.5	- 2)	
• solid				2x (0.25 2.5	,	
	d with core end processing	<u> </u>		2x (0.25 1.5	o mm²)	
cables	le conductor cross-secti	ons at AWG				
 for auxiliary control 	ontacts		_	2x (24 14)		
Ambient conditions				E 000		
	e at height above sea lev	vel	m	5 000		
environmental cate	• •					
	ort acc. to IEC 60721				1, 2M2 (max. fall heig	,
 during storage 	e acc. to IEC 60721			1K6 (only occ	asional condensation st not get inside the c), 1C2 (no salt mist),
 during operation 	ion acc. to IEC 60721			3K6 (no forma	-	nsation), 3C3 (no salt
ambient temperatu	ire					
 during operation 	ion		°C	-25 +60		
 during storage 			°C	-40 +80		
derating temperatu	ure		°C	40		
protection class IP	on the front acc. to IEC	60529		IP20		
touch protection o	n the front acc. to IEC 6	0529		finger-safe, fo	r vertical contact from	the front
Certificates/ approv	als			-		
						For use in hazard-
General Product A	Approval				EMC	ous locations
SP Em		(UL)		EHC		K ATEX
Declaration of	Test Certificates		М	larine / Shipping		
Conformity				69		
CE EG-Konf.	Special Test Certific- ate	Type Test Cert ates/Test Rep		Lloyds Register us	PRS	DNV-GL DNV-GL
other	Railway					
Confirmation	Vibration and Shock	Confirmatior	1			

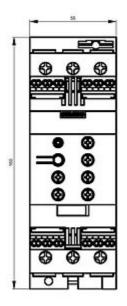
LIL /CCA rotingo					
UL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor					
• at 460/480 V					
— at standard circuit at 50 °C rated value	hp	40			
• at 575/600 V					
- at standard circuit at 50 °C rated value	hp	60			
contact rating of auxiliary contacts according to UL		B300 / 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=3RW4038-2BB05					

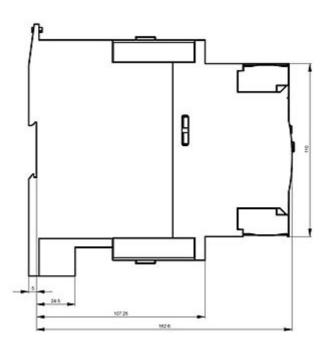
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4038-2BB05

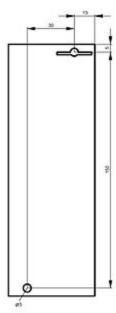
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

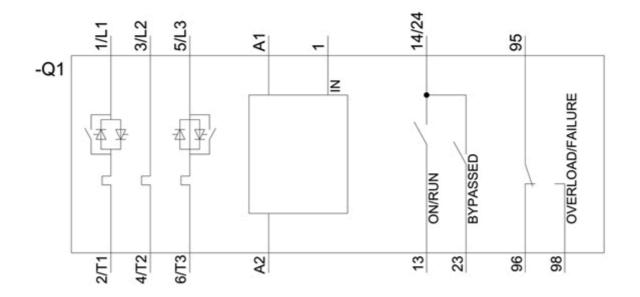
https://support.industry.siemens.com/cs/ww/en/ps/3RW4038-2BB05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4038-2BB05&lang=en









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