SIEMENS

Data sheet

3RW4038-1TB04



SIRIUS soft starter S2 72 A, 37 kW/400 V, 40 °C 200-480 V AC, 24 V AC/DC Screw terminals Thermistor motor protection

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 		Yes
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 according to EN 61346-2		Q
reference code according to DIN 40719 extended		G
according to IEC 204-2 according to IEC 750		
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 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 [%]	%	20
adjustable motor current for motor overload protection minimum rated value	А	35

continuous operating current [% of le] at 40 °C power loss [W] at operational current at 40 °C during % 115 W 15

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	%	-15
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	%	-15
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	%	-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 		screw-type 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 processingstranded		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 mm²)
 finely stranded with core end processing stranded 		1.5 25 mm ² 1.5 35 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		

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 solid 				2x (1.5 16		
 finely stranded v 	with core end processing	ng		2x (1.5 16		
 stranded 				2x (1.5 25	mm²)	
	conductor cross-sect acts for box terminal	ions at AWG				
 using the back of 	clamping point			16 2		
 using the front of 	lamping point			18 2		
 using both clam 	ping points			2x (16 2)		
type of connectable auxiliary contacts	conductor cross-sect	ions for				
 solid 				2x (0.5 2.5	5 mm²)	
 finely stranded v 	with core end processir	ng		2x (0.5 1.5	2x (0.5 1.5 mm²)	
type of connectable cables	conductor cross-sect	ions at AWG				
 for auxiliary con 	tacts			2x (20 14)		
 for auxiliary con processing 	 for auxiliary contacts finely stranded with core end 			2x (20 16)		
Ambient conditions						
installation altitude a	at height above sea le	vel	m	5 000		
environmental categ	-					
-	according to IEC 6072	1		2K2 2C1 25	S1, 2M2 (max. fall heigh	nt () (3 m)
	according to IEC 60721				casional condensation)	
				1S2 (sand m	ust not get inside the d	evices). 1M4
 during operation 	according to IEC 607	21		3K6 (no form	ation of ice, no conden and must not get into th	sation), 3C3 (no salt
ambient temperature)				Ũ	,.
 during operatior 			°C	-25 +60		
 during storage 			°C	-40 +80		
derating temperature	,		°C	40		
	n the front according	to IEC	U	IP20		
60529	in the none according			11 20		
touch protection on	the front according to	IEC 60529		finger-safe, f	or vertical contact from	the front
Certificates/ approvals	5			-		
General Product Ap						EMC
						_
(S) E	<u>Confirmation</u>			Ű	EHC	
Test Certificates		Marine / Ship	ping			other
	T T 10 17			-		
Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	Llovd's		(AR)	An arresting the second	Confirmation
ale	ales/rest Report	Register		C ALL	DNV-GL	
		LRS		PRS	DAVOLCORIAN	
Railway						
Railway						
Vibration and Shock	Confirmation					

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

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=3RW4038-1TB04

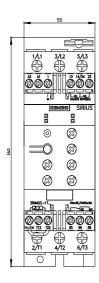
Cax online generator

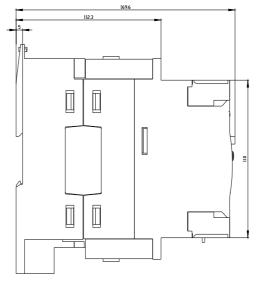
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4038-1TB04

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

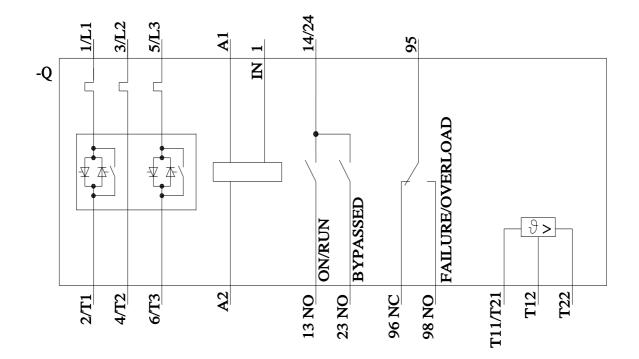
https://support.industry.siemens.com/cs/ww/en/ps/3RW4038-1TB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4038-1TB04&lang=en









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