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 according to EN 61346-2		Q
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
at 40 °C rated value	А	72
at 50 °C rated value	A	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 	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	A	35
protection minimum rated value		

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

 solid 				2x (1.5 16 m	im²)	
 finely stranded 	d with core end processir	ng		2x (1.5 16 m		
 stranded 				2x (1.5 25 m	im²)	
	e conductor cross-sect ntacts for box terminal	tions at AWG				
using the back				16 2		
 using the back using the front 	1 01			18 2		
 using the norm using both cla 				2x (16 2)		
-	e conductor cross-sect	tions for		2X (10 2)		
auxiliary contacts						
 solid 				2x (0.25 2.5	mm²)	
 finely stranded 	d with core end processir	ng		2x (0.25 1.5	mm²)	
type of connectable cables	e conductor cross-sect	tions at AWG				
 for auxiliary co 	ontacts			2x (24 14)		
Ambient conditions						
installation altitude	e at height above sea le	vel	m	5 000		
environmental cate	-					
	ort according to IEC 6072	21		2K2, 2C1, 2S1,	, 2M2 (max. fall heigl	ht 0.3 m)
	e according to IEC 60721				sional condensation)	
				1S2 (sand mus	t not get inside the d	levices), 1M4
 during operation 	on according to IEC 6072	21			ion of ice, no conder Id must not get into tl	nsation), 3C3 (no salt he devices), 3M6
ambient temperatu	re					
 during operation 			°C	-25 +60		
 during storage 	9		°C	-40 +80		
derating temperatu	ire		°C	40		
protection class IP 60529	on the front according	to IEC		IP20		
touch protection of	n the front according to	DIEC 60529		finger-safe, for	vertical contact from	the front
Certificates/ approva	als					
General Product A	pproval					EMC
		Confirmation	ב	ŝ	rnr	A
(01)	(\mathbf{m})			(VL)	FHI	<u>/</u> \(A)
CSA					LIIL	RCM
Declaration of	T (O (F) (
Conformity	Test Certificates		IVIa	arine / Shipping		
	Special Test Certific-	Type Test Cert	ific-		(FT)	- 407/40 AL
CE	ate	ates/Test Rep		Lloyds	(33)	An and a second s
				register		DNVGL
EG-Konf.				LRS	PRS	DEVOLUTION
other	Railway					
0 5 "	0 5 7	N/1 1				
Confirmation	<u>Confirmation</u>	Vibration and SI	<u>NOCK</u>			

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 on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

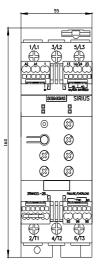
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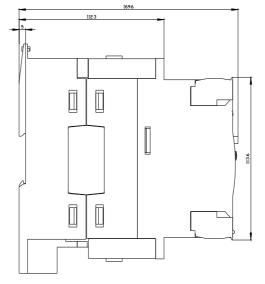
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4038-2BB04

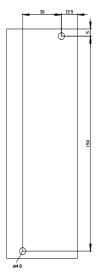
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

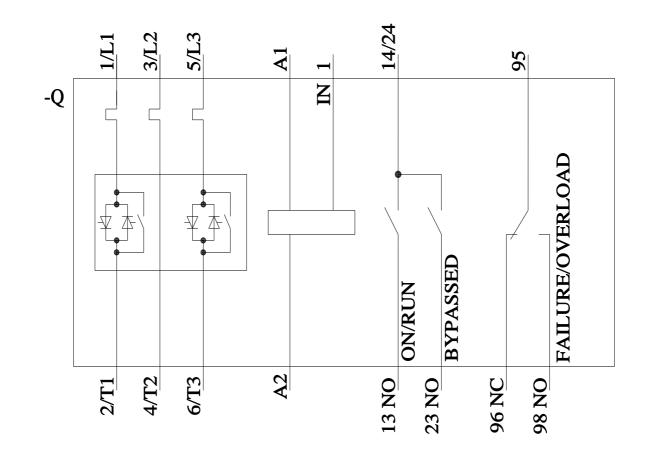
https://support.industry.siemens.com/cs/ww/en/ps/3RW4038-2BB04

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









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