SIEMENS

Data sheet

3RW4036-1BB04



SIRIUS soft starter S2 45 A, 22 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 24 V AC/DC Screw terminals

product brand name		SIRIUS
product designation		Soft starter
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
blocking voltage of the thyristor maximum	V	1 600
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
ower Electronics		
operational current		
• at 40 °C rated value	А	45
● at 50 °C rated value	А	42
● at 60 °C rated value	А	39
yielded mechanical performance for 3-phase motors		
• at 230 V		
- at standard circuit at 40 °C rated value	kW	11
• at 400 V		
- at standard circuit at 40 °C rated value	kW	22
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	10
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	A	23
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	6
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 processing 		0.75 25 mm ²
• 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 		$1.5 \dots 25 \text{ mm}^2$
stranded 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 mr	m ²)	
 finely stranded with 	core end processing			2x (1.5 16 mr		
 stranded 	core end processing			2x (1.5 25 mr		
type of connectable conc cables for main contacts		s for AWG		2x (1.0 20 m	,	
 using the back clam 	ping point			16 2		
 using the front clamp 				18 2		
 using both clamping 				2x (16 2)		
type of connectable conc contacts	•	s for auxiliary				
 solid 				2x (0.5 2.5 m	m²)	
 finely stranded with 	core end processing			2x (0.5 1.5 m	m²)	
type of connectable conc cables	ductor cross-section	s for AWG				
 for auxiliary contacts 	3			2x (20 14)		
 for auxiliary contacts 	s finely stranded with	core end		2x (20 16)		
processing						
Ambient conditions			_			
installation altitude at he	ight above sea level		m	5 000		
environmental category						
 during transport acc 	ording to IEC 60721				2M2 (max. fall height 0.3	,
during storage accord	-			(sand must not	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4	
 during operation acc 	cording to IEC 60721				on of ice, no condensation on t get into the devices	
ambient temperature						
 during operation 			°C	-25 +60		
 during storage 			°C	-40 +80		
derating temperature			°C	40		
protection class IP on the	e front according to	IEC 60529		IP20		
touch protection on the f					vertical contact from the	front
UL/CSA ratings				iniger care, ier i		
yielded mechanical perfo	rmanco [hn] for 3-n	asso AC motor				
	finance [np] for 3-p	lase AC motor				
a at 220/230 V/						
at 220/230 V at standard air	ouit at 50 °C rated val		hn	15		
— at standard cire	cuit at 50 °C rated val	ue	hp	15		
 — at standard circ at 460/480 V 			·			
 — at standard circ at 460/480 V — at standard circ 	cuit at 50 °C rated val	ue	hp	30		
 at standard circ at 460/480 V at standard circ contact rating of auxiliary 	cuit at 50 °C rated val	ue	·			
- at standard circ • at 460/480 V - at standard circ contact rating of auxiliary Approvals Certificates	cuit at 50 °C rated val y contacts according	ue	·	30		
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- at standard circ • at 460/480 V - at standard circ contact rating of auxiliary Approvals Certificates General Product Approv	cuit at 50 °C rated val y contacts according ral	g to UL	hp	30 B300 / R300	UL	ERFC Marine / Shipping
at standard circ • at 460/480 V at standard circ contact rating of auxiliary Approvals Certificates General Product Approv UK	cuit at 50 °C rated val y contacts according ral	g to UL	hp	30 B300 / R300	UL	
at standard circ • at 460/480 V at standard circ contact rating of auxiliary Approvals Certificates General Product Approv UK	cuit at 50 °C rated val y contacts according al EG-Konf.	g to UL	hp ard- Te	30 B300 / R300	Under Tast Cartific	
at standard circ • at 460/480 V at standard circ contact rating of auxiliary Approvals Certificates General Product Approv UK	cuit at 50 °C rated val y contacts according ral	g to UL	hp ard- Te	30 B300 / R300	EXAMPLE 1	
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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=3RW4036-1BB04

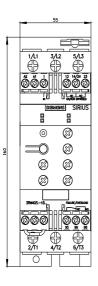
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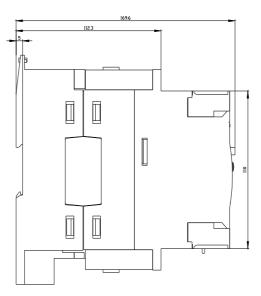
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4036-1BB04

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

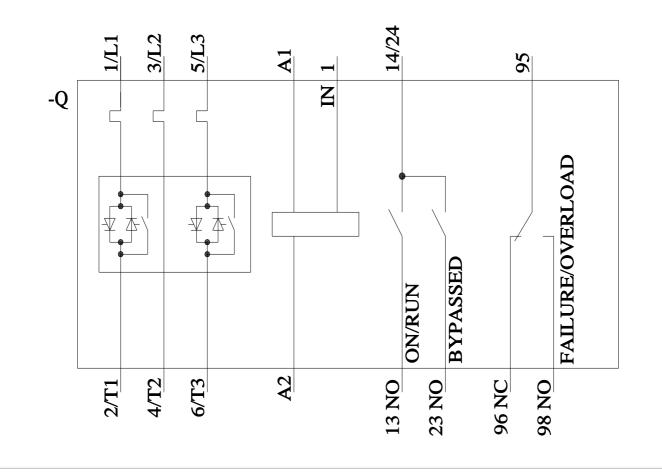
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4036-1BB04&lang=en









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