SIEMENS

Data sheet 3RW4036-2TB04



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

General technical data		
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 		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
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
Power Electronics		
operational current		
 at 40 °C rated value 	Α	45
• at 50 °C rated value	Α	42
 at 60 °C rated value 	Α	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

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adjustable motor current for motor overload protection minimum rated value	А	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		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 mm²		
• 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 mm²)		
 finely stranded with core end processing 		2x (1.5 16 mm²)		
• stranded		2x (1.5 25 mm²)		
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal				
 using the back clamping point 		16 2		
 using the front clamping point 		18 2		
using both clamping points		2x (16 2)		
type of connectable conductor cross-sections for auxiliary contacts				
• solid		2x (0.25 2.5 mm²)		
 finely stranded with core end processing 		2x (0.25 1.5 mm²)		
type of connectable conductor cross-sections for AWG cables				
for auxiliary contacts		2x (24 14)		
Ambient conditions				
installation altitude at height above sea level	m	5 000		
environmental category				
 during transport according to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
 during storage according to IEC 60721 		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
during operation according to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
ambient temperature				
 during operation 	°C	-25 +60		
during storage	°C	-40 +80		
derating temperature	°C	40		
protection class IP on the front according to IEC 60529		IP20		
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front		
Environmental footprint				
global warming potential [CO2 eq] total	kg	181		
global warming potential [CO2 eq] during manufacturing	kg	26.9		
global warming potential [CO2 eq] during sales	kg	0.324		
global warming potential [CO2 eq] during operation	kg	158		
global warming potential [CO2 eq] after end of life	kg	-4.56		
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	15		
• at 460/480 V				
— at standard circuit at 50 °C rated value	hp	30		
contact rating of auxiliary contacts according to UL		B300 / R300		
Approvals Certificates				









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For use in hazardous locations

Test Certificates

Marine / Shipping



Special Test Certificate

Type Test Certificates/Test Report







other Railway Environment







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,...)

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4036-2TB04

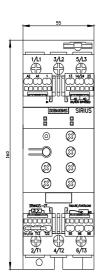
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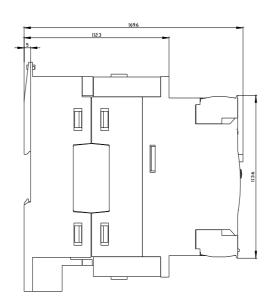
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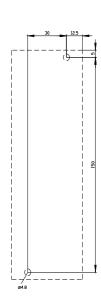
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

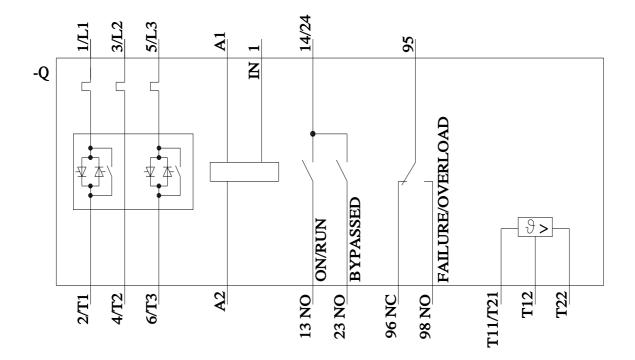
https://support.industry.siemens.com/cs/ww/en/ps/3RW4036-2TB0-

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4036-2TB04&lang=en









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